

# City of Harrisonburg, Virginia Comprehensive Plan 2011 Update

The City of Harrisonburg expresses appreciation to all individuals who contributed to the preparation of this document.

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### **Executive Summary**

### Introduction

The City of Harrisonburg Comprehensive Plan presents a vision of what kind of community the City would like to be in the future and identifies the steps required to move toward that vision. The Plan provides information about the City's current conditions, long-term goals and objectives, and recommended implementation strategies. It addresses a wide range of issues, including land use, housing, transportation, infrastructure, the preservation of historic and natural resources, and economic development.

As a long-term guide for the community, the Plan helps City leaders make decisions about the location, scale, and quality of new development; the improvement of neighborhoods and commercial areas; the revitalization of downtown and surrounding historic areas; the extension and upgrade of roads and utilities; and the future of the City's parks, public spaces, and natural areas. The plan is adopted to set the City's growth and development policies for the next five years within a long-term planning horizon of twenty years.

This executive summary provides a brief synopsis of the Comprehensive Plan by presenting its primary recommendations: the Vision Statement & Goals, Plan Framework, Land Use Guide, and Master Transportation Plan. The reader is encouraged to refer to the complete Comprehensive Plan document to gain a full understanding of all the policies therein.

#### **Vision Statement & Goals**

The Comprehensive Plan provides an opportunity for the City to articulate its vision for the future – what kind of city it would like to be in the next twenty years and beyond. The vision guides the development of the goals, objectives, and strategies for action that make up the policies of the plan.

### Vision Statement

The City of Harrisonburg presents its vision for the future as follows:

The City of Harrisonburg – where citizens are inspired to work together to create a great place to live, to raise a family, to learn, to work and to prosper.

### Goals for Achieving the Vision

The City of Harrisonburg sets the following goals for achieving the vision:

- Goal 1. To improve the quality and compatibility of land use and development.
- Goal 2. To promote novel patterns of development like those developed early in the City's history vital, well planned and well integrated mixed-housing and mixed-use urban areas of distinct character.
- Goal 3. To strengthen existing neighborhoods and promote the development of new neighborhoods that are quiet, safe, beautiful, walkable, enhance social interaction, and offer a balanced range of housing choices.
- Goal 4. To meet the current and future needs of residents for affordable housing.

- Goal 5. To provide a wide and equitably distributed range of educational opportunities for all ages.
- Goal 6. To provide a wide and equitably distributed range of arts and cultural opportunities for all ages.
- Goal 7. To celebrate the City's heritage and preserve and protect its historic resources as essential elements of the City's economic health, aesthetic character, and sense of place.
- Goal 8. To preserve and enhance the City's natural resources and encourage development that is compatible with nature.
- Goal 9. To meet the recreation needs of every citizen by providing comprehensive leisure opportunities and developing and maintaining a safe, well-distributed park and recreation system.
- Goal 10. To develop and maintain a safe and convenient transportation system serving all modes of travel, such as, automobile, pedestrian, bicycle and transit.
- Goal 11. To support a vital city with community facilities, infrastructure and services, which are efficient, cost-effective and conserving of resources.
- Goal 12. To ensure the provision of utility services to residents, businesses and customers.
- Goal 13. To ensure the public safety and encourage the provision of excellent health services for all people.
- Goal 14. To retain and enhance the City's role as the economic and tourism hub of the region, offering a variety of jobs in those sectors that enhance the City's ability to expand its economic base.
- Goal 15. To enhance and revitalize existing residential and commercial areas.
- Goal 16. To coordinate and collaborate with Rockingham County, Rockingham Memorial Hospital, James Madison University, Eastern Mennonite University, faith based organizations, and others to meet these goals.
- Goal 17. To engage all citizens to work collaboratively in planning, developing, and promoting the City as a great place.
- Goal 18. To keep this plan vital and useful by regularly reviewing its recommendations and the progress toward meeting them.

#### **Plan Framework**

The Plan Framework Map provides an overview of the main ideas and themes addressed in the Comprehensive Plan. The map highlights areas where some degree of change is encouraged or anticipated. The following table summarizes the guiding policies for each highlighted area on the map. The Plan Framework Map is found in Chapter 4.

**Plan Framework Guiding Policies** 

Trail Framework Guiding Foncies						
Framework	Guiding Policies					
City Gateways	Strengthening the City's image and attractiveness by improving entries.					
Corridor Enhancement Areas	Improving the condition, character and quality of primary and secondary travel corridors.					
Greenway Park System	Providing a connected system of parks and greenways.					
Low Density Mixed Residential	Encouraging a mix of large and small-lot single family detached residential development areas combined with parks and green spaces.					
Medium Density Mixed Residential	Encouraging a mix of small-lot single family detached and attached residential development areas combined with parks and green spaces.					
Mixed Use Development Areas	Promoting planned mixed use areas offering innovative combinations of residential and business development.					
Downtown Revitalization Area	Reviving downtown as the heart of the City – the civic, economic, cultural, and symbolic center of city life.					
Edom Road Revitalization Area	Promoting reinvestment and sensitive redevelopment in this older commercial and industrial district.					
Neighborhood Conservation Areas	Improving the quality of life in the City's mature neighborhoods to improve housing conditions, to reduce land use conflicts, and other issues.					

The Comprehensive Plan contains many strategies for implementing the Plan Framework, including the development of detailed neighborhood and district plans, needed changes to the Zoning Ordinance to allow novel types of new development, revitalization incentive packages, and planned transportation and infrastructure improvements.

### **Land Use Guide**

One of the primary functions of a comprehensive plan is to set forth a community's policies regarding the future use of land. To that end, the City has developed a Land Use Guide Map, included in Chapter 5. The City will use this map to guide its decisions regarding development proposals from the private sector, such as rezonings and special use permits. The City will also use the map for planning its own facilities and for influencing state and federal agencies to plan their facilities. The following categories of land uses are shown on the Land Use Guide Map. Both this text and the map must be consulted to understand the City's land use recommendations.

### Low Density Residential

These areas consist of single family detached dwellings with a maximum density of 1 to 4 units per acre. Low density sections are found mainly in and around well established neighborhoods. The low density residential areas are designed to maintain the existing character of neighborhoods and to provide traditional areas for home ownership.

### Low Density Mixed Residential

These large undeveloped areas located at the edge of the City are planned for residential development containing a mix of large and small-lot single family detached dwellings and attractive green spaces. Planned "open space" (also known as "cluster") developments are encouraged. The intent is to allow innovative residential building types and permit creative subdivision design solutions that promote neighborhood cohesiveness, walkability, connected street grids, community green spaces, and protection of environmental resources. Such innovative residential building types as zero lot-line development and patio homes will be considered as well as other new single family residential forms. The gross density of development in these areas should be in the range of 1 to 6 dwelling units per acre.

### Neighborhood Residential

These are older neighborhoods, which can be characterized by large housing units on small lots. This type of land use highlights those neighborhoods in which existing conditions dictate the need for careful consideration of the types and densities of future residential development. Infill development and redevelopment must be designed so as to be compatible with the existing character of the neighborhood.

### Medium Density Residential

The medium density residential areas are designated in areas near major thoroughfares or commercial areas. Most of these areas have been developed or are approved for development of a variety of housing types such as single-family, duplex, and in special circumstances, apartments. Depending on the specific site characteristics, densities in these areas may range from 1 to 15 units per acre.

### Medium Density Mixed Residential

These largely undeveloped areas continue the existing medium density character of adjacent areas, but in a different form. They are planned for small-lot single family detached and single family attached neighborhoods where green spaces are integral design features. Apartments could also be permitted under special circumstances. They should be planned communities that exhibit the same innovative features as described for the low density version of mixed residential development described above. The gross density of development in these areas should be in the range of 4 to 12 dwelling units per acre and commercial uses would be expected to have an intensity equivalent to a Floor Area Ratio of at least 0.4, although the City does not measure commercial intensity in that way.

### High Density Residential

A number of areas in the City have been developed in high density residential use, mostly apartment buildings at densities ranging from 12 to 24 dwelling units per acre. Many of these existing clusters of multifamily development and adjacent areas approved or planned for such development are identified as high density residential on the Land Use Guide.

### Mixed Use Development Areas

The Mixed Use Development category includes both existing and proposed new mixed use areas. Downtown is an existing area that exhibits and is planned to continue to contain a mix of land uses. The quality and character of the mix of uses in downtown should be governed by a downtown revitalization plan, as recommended in Chapter 14, Revitalization. New mixed use areas shown on the Land Use Guide map are intended to combine residential and non-residential uses in planned neighborhoods where the different uses are finely mixed instead of separated. Quality architectural design features and strategic placement of green spaces will ensure development compatibility. These areas are prime candidates for "live-work" and traditional neighborhood developments. Live-work

developments combine residential and office/service uses allowing people to both live and work in the same area. Live-work spaces may be combined in the same building or on the same street. All buildings have a similar residential scale. Traditional neighborhood development permits integrated mixing of residential, retail, office and employment uses to create a neighborhood with the following characteristics:

- The design of the neighborhood allows residents to work, shop, and carry out many of life's other activities within the neighborhood.
- A mix of land uses is provided. The proximity of uses allows residents to walk, ride a bicycle, or take transit for many trips between home, work, shopping, and school.
- A variety of housing types is provided at a range of densities, types (multifamily, townhouse, and single family), and costs. Neighborhoods are heterogeneous mixes of residences in close proximity to commercial and employment uses.
- The neighborhood includes a retail, office, employment, and/or entertainment core to provide economic and social vitality, as well as a major focus and meeting place in the community.
- The circulation system serves many modes of transportation and provides choices for alternative transportation routes. Streets, alleys, and pedestrian and bike paths connect to the surrounding area. Streets and alleys generally follow a grid pattern to provide these route choices and connections. Traffic calming techniques may be used to reduce vehicle speed and increase pedestrian and bicycle safety.
- The overall intensity of development is designed to be high enough to support transit service.
- A system of parks; open spaces; and civic, public, and institutional uses is included to create a high quality of life and civic identity for the community.
- The cluster concept is embraced so as to concentrate development in environmentally suitable areas and to preserve and protect important environmental and cultural resources.

The gross residential density in areas outside downtown should not exceed an average of 15 units per acre, though all types of residential units are permitted: single family detached, single family attached and apartments. Apartments are permitted only if single family detached and/or attached units are also provided and together cover a greater percentage of the project site. Residential densities in downtown may be higher than an average of 15 units per acre, and commercial uses would be expected to have an intensity equivalent to a Floor Area Ratio of at least 0.4, although the City does not measure commercial intensity in that way.

### Commercial

Commercial uses include retail, office, wholesale, or service functions. Restaurant and lodging uses are also included. These areas are generally found along the City's major travel corridors. The largest concentration of commercial land use is located between E. Market Street and Reservoir Street and includes the Valley Mall, a number of shopping centers, and significant office development.

### Planned Business

These areas are suitable for commercial development but need careful controls to ensure compatibility with adjacent land uses. The maintenance of functional and aesthetic integrity should be emphasized in review of applications for development and redevelopment and should address such matters as: control of access; use of service roads or reverse frontage development; landscaping and buffering; parking; setback; signage; building mass and height; and orientation in regard to aesthetic concerns.

### **Professional**

These areas are designated for professional service oriented uses with consideration to the character of the area. These uses are found in the residential areas along major thoroughfares and adjacent to the

Central Business District. Conversion of houses in these areas to office and professional service uses is permitted with appropriate attention to maintaining compatibility with adjacent residential areas in the same manner as described for Planned Business areas.

### **Industrial**

These areas are composed of land and structures used for light and general manufacturing, wholesaling, warehousing, high-technology, research and development and related activities. They include the major existing and future employment areas of the City.

### Public/Semi-Public

These lands are designated for public and semi-public use. They include lands owned or leased by the Commonwealth of Virginia, the federal government, the City of Harrisonburg, and other governmental organizations. Examples of uses included in this category are public schools, libraries, City Hall and City administrative and support facilities. City parks are included in the Conservation, Recreation and Open Space category

### Institutional

Lands designated for development by certain nonprofit and public institutional uses such as private colleges and universities, hospitals, offices of nonprofit organizations, community assembly uses and institutions that provide for the shelter and care of people.

### Conservation, Recreation and Open Space

The City's parks and golf course are included in this category, as well as private open space recreation uses, such as country clubs.

### **Master Transportation Plan**

A well planned community sets policies for land use and transportation that are coordinated. In support of the land uses recommended in the Land Use Guide and the development changes recommended by the Plan Framework Map, the Plan also incorporates a Master Transportation Plan. This plan consists of maps, tables, and other plans. The Street Improvement Plan is an important component of the overall Master Transportation Plan as it recommends improvements to the City's transportation system. The Street Improvement Plan is listed and described in map form in Chapter 11. Improvements to the transportation system include not only road improvements, but also recommended bicycle facilities, changes in the rail system, and greenway trails.

### Implementation and Periodic Review of the Plan

Preparation of a comprehensive plan is worthwhile only if the plan is used and its recommendations are implemented. This plan recommends an ambitious array of goals, objectives, and strategies for achieving its vision for the future. It should be understood that the recommendations cannot be implemented all at once. Chapter 16, however, lists strategies that the City has given high priority and should be considered for implementation in the first five years after this plan is adopted.

While recognizing that it is important to follow through on the Plan's recommendations, the City also understands that the plan is not set in stone. Circumstances change and new opportunities arise; therefore, the City pledges to review the Plan's recommendations periodically, at least once every five years, to ensure that the Plan is kept up-to-date and continues to provide useful and beneficial recommendations.

### **Chapter 1 Introduction**

The City of Harrisonburg Comprehensive Plan presents a vision of what kind of community the City would like to be in the future and identifies the steps required to move toward that vision. The Plan provides information about the City's current conditions, long-term goals and objectives, and recommended implementation strategies. It addresses a wide range of issues, including land use, housing, transportation, infrastructure, the preservation of historic and natural resources, and economic development.

As a long-term guide for the community, the Plan helps City leaders make decisions about the location, scale, and quality of new development; the improvement of neighborhoods and commercial areas; the revitalization of downtown and surrounding historic areas; the extension and upgrade of roads and utilities; and the future of the City's parks, public spaces, and natural areas.

Known as the "City with the Planned Future," Harrisonburg has a long tradition of public planning, and this plan builds on previous comprehensive plans adopted by the City. This plan is adopted to set the City's growth and development policies for the next five years within a long-term planning horizon of twenty years. The City Council expects to consider revisions to the plan, particularly at its next review in five years. In the meantime, this plan is meant to set the City on a course toward meeting its long-term vision as articulated in detail in Chapter 2.

### Value and Importance of a Comprehensive Plan

The Comprehensive plan is one of the most essential documents produced by a local government. The Commonwealth of Virginia requires, in Section 15.2-2223 of the State Code, that every community prepare and adopt a comprehensive plan to guide its future growth and development. This plan must be kept up to date; state law requires the planning commission to review the plan at least once every five years.

The Plan is important because it is both comprehensive and it is long term. It helps to coordinate most City activities by examining them all together at one time - a comprehensive approach. In this way, transportation is coordinated with decisions on new development, which in turn can be accommodated by planned improvements to water and sewer service. At the same time valued historic and natural resources are known and considered. Adopting and publishing a plan advertises the City's desires to others, allowing the public and the state and federal governments to know the City's development policies. A long-term view is necessary, so that short-term solutions to respond to a crisis do not preclude the City from reaching its long-term goals.

### The Plan as a Guide

It is important for citizens to realize that while the Plan is important, it is only a guide. It is not a regulating document. It is not the law. Rather, it is a policy document used by the Planning Commission and the City Council to guide decisions about such issues as rezoning proposals, the location of new roads, investments in water and sewer improvements, and the development of parks. The Plan is implemented by the City through the Zoning and Subdivision Ordinances, the Design and Construction Standards Manual, the City Code, the Capital Improvement Program, and the annual budget.

### A Community-Based Comprehensive Plan

Early in 2009, Planning Commission analyzed the 2004 Comprehensive Plan, and determined it was still relevant but that it should be modified to reflect the City's latest ideals and to adapt the Plan to the

changes that have occurred since February 2004. Unlike the 2004 Comprehensive Plan update process, where the City contracted with a consultant to help with the implementation of the update, Planning Commission decided this revision should be conducted by the Commission and City staff. Planning staff collaborated with other City departments during the summer months of 2009 to update quantitative and qualitative data for Planning Commission to review. Throughout the fall and winter of 2009, Planning Commission analyzed the updated information and performed a "status check" of the Plan's goals, objectives, and strategies prior to collecting public input.

To ensure the Plan reflected the community's ideology and guide for the future, Planning Commission focused on reaching out and engaging residents by holding public input sessions once a week, for four weeks in the Spring of 2010. The sessions occurred between April 29<sup>th</sup> and May 19<sup>th</sup> 2010, from 7:00 – 9:00 p.m. at the Lucy F. Simms Center for Continuing Education. The location and schedule were strategically planned to create a neutral and welcoming environment at times when the weather is typically pleasant and while the City's colleges were still in session.

Each evening, Planning Commission wanted to collect feedback on specific information; therefore, the evenings were divided by topic and chapter. The schedule occurred as follows:

- Thursday, April 29<sup>th</sup> Land Use and Transportation, Chapters 5, 6, & 11
- Wednesday, May 5<sup>th</sup> Natural Resources & Community and Safety Issues, Chapters 9, 10, 12, & 13
- Thursday, May 13<sup>th</sup> Cultural Resources & Revitalization, Chapters 7, 8, 13, & 14
- Wednesday, May 19<sup>th</sup> Housing and Collaboration, Chapters 6, 12, & 15

Planning Commission then held several worksessions to review all of the comments collected during the public input sessions and made changes to the Plan based upon the collected information. One worksession focused exclusively on the Land Use Guide, where Planning Commission recommended multiple properties be re-designated to different land uses.

Once the Plan was in a complete draft form, Planning Commission held a public hearing on April 13, 2011, where it was recommended to City Council for approval. City Council adopted the plan on May 10, 2011.

### **Plan Organization**

The layout, the delivery, and some of the information in this plan is similar, and in some cases, exactly the same as the 2004 update as the review of that information proved relevant and consistent with the City's vision. This Plan is organized for the convenience of both the general reader and those with questions about detailed recommendations in specific topic areas. For the general reader, the plan includes an Executive Summary, then this Introduction (Chapter 1) and a presentation of the City's Vision and Goals (Chapter 2). Following these opening chapters are the more detailed elements of the plan. Chapter 3 presents data on population and income to provide the Planning Context. Chapter 4 gives the overall framework for planning in Harrisonburg through an illustrative map and text. The Plan Framework Map illustrates the City's general pattern of development and highlights areas where some degree of change is encouraged or anticipated. Following the Plan Framework are the chapters dealing with specific topic areas, referred to as "plan elements." All Plan chapters are listed below:

Chapter 1 Introduction Chapter 2 Vision & Goals

Chapter 3	Planning Context
Chapter 4	Plan Framework
Chapter 5	Land Use & Development Quality
Chapter 6	Neighborhoods & Housing
Chapter 7	Education
Chapter 8	Arts, Culture, & Historic Resources
Chapter 9	Natural Resources
Chapter 10	Parks & Recreation
Chapter 11	Transportation
Chapter 12	Community Infrastructure, Services, Safety & Health
Chapter 13	Economic Development & Tourism
Chapter 14	Revitalization
Chapter 15	Community Engagement & Collaboration

Implementation

Chapter 16

The order in which the plan elements are presented does not imply any priority or order of importance. It is important for users of the plan to recognize that all the elements are interrelated.

Each element of the plan covered in Chapters 5 - 16 contains one or more long-term goals, the same goals as listed in Chapter 2, as well as more detailed objectives and strategies designed to implement the goals. The strategies are the most detailed recommendations of the plan and include specific projects, programs, initiatives, and investments that the City should undertake.

Although each individual strategy is important in achieving the vision, it is necessary to identify priorities and responsibilities for early implementation. Chapter 16, the final chapter, lists initial actions outlined in a five-year implementation program.

### Chapter 2 Vision & Goals

### Introduction

The preparation of the Comprehensive Plan provides an opportunity for the City to explore and articulate its vision for the future – what kind of city it would like to be in the next twenty years and beyond. This vision guides the development of the goals, objectives, and strategies for action that make up the policies of this plan. By implementing the goals, objectives and strategies, the City will move toward realizing its vision.

#### **Vision Statement**

The City of Harrisonburg presents its vision for the future as follows:

The City of Harrisonburg – where citizens are inspired to work together to create a great place to live, to raise a family, to learn, to work and to prosper.

What is such a place? It is a city of safe and beautiful neighborhoods, where neighbors socialize and residents can walk safely down the street to worship, to play in the park, to go to school or even to shop or work. These are quiet, peaceful neighborhoods, beautiful in their architecture and landscaping. They offer many housing choices so each citizen has an opportunity to live in a decent home that they can afford and that is an asset to the neighborhood.

The City of Harrisonburg will be a great place to learn. It will offer excellent schools for our children to learn all they can to reach their full potential. Our great universities will be truly integrated into city life as centers of learning and culture offering opportunities to residents to experience and participate in the arts and to continue their educations.

This will be a city proud of its heritage, both cultural and natural, saving the best of its historic buildings and areas and preserving cherished green spaces. In our ideal city of the future, the air and the water in our streams will be cleaner in 2020 than they are today.

This will also be a city of efficient and effective service delivery. Clean, plentiful water will come from the tap and wastes will be handled efficiently, at low cost and in an environmentally sound manner. Transportation systems will work for citizens by offering many ways for people to get from here to there, and not just by car. The city will explore new technologies to assure the best, least costly services that conserve resources. Citizens will contribute to keeping the city working well by conserving water and energy and minimizing or recycling wastes.

Economic vitality will allow all to work and to prosper. The City of Harrisonburg will retain its place as the economic hub of the region through expansion of business opportunities. Such expansion may be achieved not only by new commercial and industrial development, but also by the revitalization of older and historic economic areas. A lively, revitalized downtown will play a central role in civic life. The commercial areas at city gateways will provide a good impression and welcome visitors and residents alike.

How will this great city be achieved? ... by engaging all its citizens to work toward the vision, by tapping into their skills and experience, and by engendering community spirit and pride.

### **Goals for Achieving the Vision**

The City of Harrisonburg sets the following goals for the next twenty years and beyond. These goals will inspire us to action - to devise the measures and policies necessary to make this city a great place to live, to raise a family, to learn, to work and to prosper.

- Goal 1. To improve the quality and compatibility of land use and development.
- Goal 2. To promote novel patterns of development like those developed early in the City's history vital, well planned and well integrated mixed-housing and mixed-use urban areas of distinct character.
- Goal 3. To strengthen existing neighborhoods and promote the development of new neighborhoods that are quiet, safe, beautiful, walkable, enhance social interaction, and offer a balanced range of housing choices.
- Goal 4. To meet the current and future needs of residents for affordable housing.
- Goal 5. To provide a wide and equitably distributed range of educational opportunities for all ages.
- Goal 6. To provide a wide and equitably distributed range of arts and cultural opportunities for all ages.
- Goal 7. To celebrate the City's heritage and preserve and protect its historic resources as essential elements of the City's economic health, aesthetic character, and sense of place.
- Goal 8. To preserve and enhance the City's natural resources and encourage development that is compatible with nature.
- Goal 9. To meet the recreation needs of every citizen by providing comprehensive leisure opportunities and developing and maintaining a safe, well-distributed park and recreation system.
- Goal 10. To develop and maintain a safe and convenient transportation system serving all modes of travel, such as, automobile, pedestrian, bicycle and transit.
- Goal 11. To support a vital city with community facilities, infrastructure and services, which are efficient, cost-effective and conserving of resources.
- Goal 12. To ensure the provision of utility services to residents, businesses and customers.
- Goal 13. To ensure the public safety and encourage the provision of excellent health services for all people.
- Goal 14. To retain and enhance the City's role as the economic and tourism hub of the region, offering a variety of jobs in those sectors that enhance the City's ability to expand its economic base

- Goal 15. To enhance and revitalize existing residential and commercial areas.
- Goal 16. To coordinate and collaborate with Rockingham County, Rockingham Memorial Hospital, James Madison University, Eastern Mennonite University, faith based organizations, and others to meet these goals.
- Goal 17. To engage all citizens to work collaboratively in planning, developing, and promoting the City as a great place.
- Goal 18. To keep this plan vital and useful by regularly reviewing its recommendations and the progress toward meeting them.

### **Chapter 3 Planning Context**

### Introduction

Information on the characteristics of the City's population, population growth rate, and income levels is essential in planning for future community needs such as schools, public utilities, recreation facilities, police protection, emergency services, human services, and housing.

Chapters within the Comprehensive Plan utilize data from previous plans and from the U.S. Census Bureau and other population studies. This chapter includes information from several sources including past U.S. Census data, the U.S. Census Bureau's 2007 – 2009 American Community Survey (ACS), the 2010 U.S. Census of Population, and others as noted below. At the time this document was prepared, only some elements of the data from the April 2010 Census were available; thus, information from the 2000 U.S. Census is still incorporated, where necessary and applicable.

The ACS is the largest survey in the country, collecting detailed social, economic, housing, and demographic data over a three year period. This survey provides information previously collected by the decennial census long form and will eventually supply up-to-date data every year rather than once a decade. The estimates provided by the ACS represent the average characteristics of the population during the time period between January 2007 and December 2009, and therefore do not represent a single point in time.

In some instances, the U.S. Census Bureau did not supply all of the necessary information to update this chapter, and therefore, additional data is provided from the University of Virginia's Weldon Cooper Center for Public Service, the Virginia Employment Commission, and others. It is important to note that the City's population characteristics are greatly affected by the presence of two institutions of higher learning—Eastern Mennonite University (EMU) and James Madison University (JMU). The large numbers of college-aged residents within the City skew some of the City's demographic characteristics, such as age distribution and personal income. Therefore, demographic comparisons with non-college communities are not very helpful thus this chapter focuses instead on other college communities within this general region of Virginia.

### **Analysis**

### Population Growth

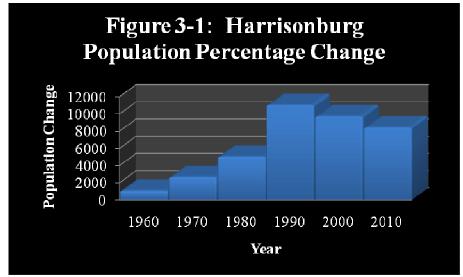
In 1900, there were 3,521 people within the City. Over the next half-century the population increased slowly, but steadily. During the 1970s, the City experienced its first major modern surge of growth, with the population increasing by 34.7 percent to 19,671. This accelerated rate of growth coincided with a major increase in enrollment at JMU and continued through the 1980s, assisted by a major annexation in 1983 that added 11.4 square miles and an estimated 5,729 persons. During the 1980s, the City experienced its largest ten-year population increase, a substantial 56 percent, due mostly to the annexation. Growth continued during the 1990s, when the population increased by 31.8 percent, to a 2000 population of 40,453, according to the U.S. Census of Population. (The 40,453 population represents the "corrected" 2000 Census number.) The April 2010 U.S. Census of Population revealed continued growth for the City with a population of 48,914.

Table 3-1: Harrisonburg Population Change, 1900-2010

Year	Population	Number Change	Percent Change
1900	3,521		
1910	4,879	1,358	38.6%

1920	5,875	996	20.4%
-			
1960	11,916	1106	10.2%
1970	14,605	2,689	22.6%
1980	19,671	5,066	34.7%
1990	30,707	11,036*	56.1%
2000	40,453	9,761	31.8%
2010	48,914	8,446	20.9%

Source: 1991 Comprehensive Plan; U.S. Census Bureau (Includes official corrections to 2000 Census)
\*Includes 5,729 persons added as a result of a 1983 annexation



Source: 1991 Comprehensive Plan; U.S. Census of Bureau (Includes official corrections to 2000 Census)
\*Includes 5,729 persons added as a result of a 1983 annexation

Table 3-2: Population Comparison
City of Harrisonburg, Rockingham County, and Virginia

	2000 U.S. Census	2010 U.S. Census		
City of Harrisonburg	40,453	48,914		
Rockingham County	67,714	76,314		
Virginia	7,079,030	8,001,024		

Source: U.S. Census Bureau (Includes official corrections to 2000 Census)

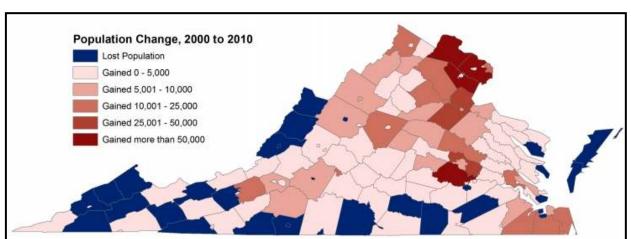


Figure 3-2: Virginia Populati

### **Change 2000 - 2010**

### Components of Growth

Population growth within a community results from a combination of the population's natural increase (births minus deaths) and migration patterns (people entering and leaving the community). While the rate of natural increase is not generally affected by government policy, migration patterns can be influenced by housing and job opportunities within a community, which in turn are affected by local government land use, housing, and economic development policies. In the City's case, migration is also affected by the student, staff, and faculty growth of EMU and JMU. Table 3-3 below illustrates trends in the components of population growth during the decades of 1980-1990, 1990-2000, and 2000-2010. This data confirms that migration of people into the City has outpaced the natural increase in the population since the 1980-1990 decade.

	Source: Weldon Cooper Center									
Decade	Population Increase		Increase (%)	Migration (#)	Migration (%)					
	(#)	(#)*								
1980-1990	11,036**	678	6.1%	10,358**	93.9%					
1980s without '83 annexation	5,307	678	12.7%	4,629	87.2%					
1990-2000	9,761	1,180	12.1%	8,581	87.9%					
_										

Sources: U.S. Census Bureau (Includes official corrections to 2000 Census);
Virginia Department of Health, Center for Vital Statistics;
\*Net of births minus deaths

2,539

30%

70%

5,922

## \*\*1983 annexation added 5,729 persons to the City

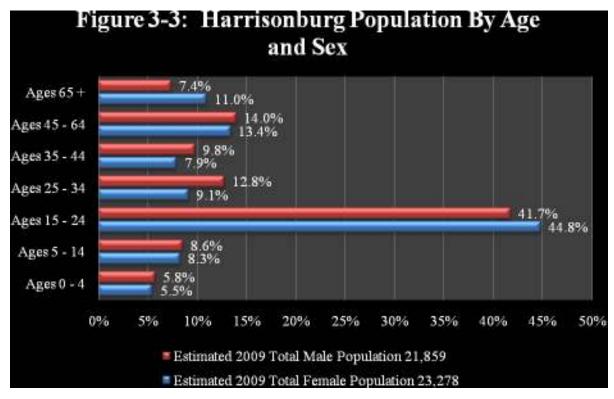
8,461

### Population Characteristics

2000 - 2010

The U. S. Census of Population and the ACS collect information on a wide variety of population characteristics, such as age distribution, education, and income. The City's population characteristics are greatly affected by the presence of two universities within the City limits.

The City's age structure is one of the most obvious population characteristics affected by the university populations. Figure 3-3 below breaks down the age group distribution by sex. Note the large percentage of the population in the 15-24 age group, which includes most college students. The data provided within this subsection comes from the Weldon Cooper Center's 2009 estimate. The figure demonstrates there are 23,278 females and 21,859 males that live within the City limits. Males outnumber females throughout most of the age groups except the 15-24 and the 65+ age groups, where females outnumber males by more than 3 percent in both categories. Although the below numbers are estimates for 2009, it is important to note that as of the fall of 2010, just over 60 percent of the JMU student population is female.



Source: 2009 Estimate from the Weldon Cooper Center for Public Service; James Madison University

According to the Weldon Cooper Center, as of 2009 the City's median age is 22.6 years compared to Rockingham County's at 39.2 years. The City is similar to Charlottesville (at 27.9 years), which is a college city.

### Population Diversity

Harrisonburg, like most U.S. cities, is becoming more diverse as the country's overall diversity increases. During the past, immigrants from other countries have been drawn to the area in part by the labor needs of the poultry industry. Table 3-4 provides diversity statistics for the City from the 1990 Census through the 2010 Census. This table also compares the City's data to Rockingham County and Virginia.

Table 3-4: Diversity Characteristics Harrisonburg, Rockingham County, and Virginia

	main somburg, Rockingham County, and virginia									
	Harrisonburg		<u>Harrisonburg</u>		Harrisonburg		Rockingham County	Rockingham County	Virginia	Virginia
RACE*	1990 (#)	1990 (%)	2000 (#)	2000 (%)	2010 (#)	2010 (%)	2000 (%)	2010 (%)	2000 (%)	2010 (%)
White	27,968	91	35,241	87.1%	38,371	78.4%	97.3	93.3%	73.9	68.6%
Black or African American	2,018	6.6	2,726	6.7%	3,112	6.4%	1.6	1.7%	20.4	19.4%
American Indian & Alaska Native	37	0.1	190	0.5%	n/a	n/a	0.3	n/a	0.7	n/a

Asian			1,652	4.1%	1,718	3.5%	0.4	0.6%	4.3	5.5%
Native Hawaiian /Other Pacific Islander	469**	1.5	44	0.1%	n/a	n/a	0	n/a	0.1	n/a
Some other race	215	0.7	1,725	4.3%	n/a	n/a	1.2	n/a	2.7	n/a
HISPANIC or LATINO	481	1.6	3,580	8.8%	7,665	15.7%	3.3	5.3%	4.7	7.9%
of any race^										

Source: 1990, 2000 U.S. Census of Population DP-1 (SF1)

2010 U.S. Census of Population (some race data was not available)

\*\*The Asian and Native Hawaiian/Other Pacific Islander categories were combined in 1990.

^The 2000 "uncorrected" population totals are used for the Hispanic or Latino of any race because the U.S. Census Bureau did not correct the counts for Hispanic origin.

As demonstrated by Table 3-4, the City's population remains predominately white, but still more diverse than Rockingham County. When one compares the City's population percentage of Hispanic/Latinos to that of the Commonwealth's, the City's percentage is almost two times the amount of Virginia's. However, the Commonwealth's population percentage of Black/African American citizens is more than three times the amount of Harrisonburg's.

When compared to the 2000 Census, the City's Hispanic/Latino population has seen the largest increase by total percentage of the total population. The Hispanic/Latino population increased by 4,085 people; this is an increase of 114 percent.

As noted above, the City has a fairly diverse population, and with that, varieties of cultures and languages are present in the school system. Based upon data from Harrisonburg City Public Schools (HCPS), in December 2010, 38 percent of students were enrolled and designated as Limited English Proficient (LEP) (Limited English Proficient and English as a Second Language, or ESL, are used synonymously). There are 49 languages represented from 47 different countries (including the U.S.), and as shown in Table 3-5 below, there are 1,713 registered LEP students out of a total school enrollment of 4,512. Spotswood elementary school has the largest LEP percentage at 61 percent while Thomas Harrison Middle School has the lowest percentage at 27 percent. The highest LEP percentage, in regard to grade level, occurs within kindergarten classes at 55 percent, whereas 20 percent of twelfth graders make up the lowest percentage of LEP students. The large numbers and percentage of LEP students throughout the school system presents major financial and operational challenges to the City's public school system.

Table 3-5: LEP Enrollment – Harrisonburg Public Schools Number, Percentage & Total by School and Grade December 2010

Grade	KES	SMES	SES	SSES	WES	SKMS	THMS	ннѕ	LEP Enrollment	Grade Enrollment	% LEP
K	50	42	56	35	51				234	426	55%
1	56	36	49	32	44				217	420	52%

<sup>\*</sup>Race alone or in combination with one or more other races listed. The race percentages may add to more than 100 percent because individuals may report more than one race.

		I		I	I						
2	52	38	43	25	29				187	358	52%
3	29	38	52	28	31				178	368	48%
4	30	25	38	18	30				141	360	39%
5						42	64		106	350	30%
6						48	49		97	333	29%
7						54	46		100	305	33%
8						41	49		90	303	30%
9								151	151	384	39%
10								86	86	340	25%
11								70	70	286	24%
12								56	56	279	20%
LEP Enrollment	217	179	238	138	185	185	208	363	1,713		
School Enrollment	448	403	388	307	386	527	764	1,289		4,512	
% LEP	48%	44%	61%	45%	48%	35%	27%	28%			38%

Source: Harrisonburg City Public Schools December 2010

KEY: KES = Keister Elementary School; SES = Spotswood Elementary School; SSES = Stone Spring Elementary School; WES = Waterman Elementary School; THMS = Thomas Harrison Middle School; HHS = Harrisonburg High School

The 2000 Census is the most recent, comprehensive data available to demonstrate foreign born residents. That information indicated that Hispanics are not the only ethnic group well-represented in the City. The data collected includes information on the region/country of birth of the City's foreign-born population, as well as the different languages spoken in households, which provide additional details on the City's diversity. According to the 2000 Census, Harrisonburg's foreign-born population numbered 3,733 persons. Eighty-two percent of the City's foreign-born residents (3,067) were not U.S. citizens. According to the 2007 – 2009 ACS, Harrisonburg's foreign born population increased by 2,526 people for a total of 6,295 residents. Seventy-seven percent of the City's foreign born residents were not U.S. citizens.

Table 3-6 summarizes the place of birth for the City's foreign born residents using the 2000 U.S. Census data. During this time, 52 percent were from Latin America, another 27.1 percent were Asian, and 9.1 percent were Eastern European. In fact, at that time, every populated continent was represented within the City's population. Based upon the LEP data discussed and illustrated above, one can assume the statistics that represent Harrisonburg's foreign born residents has, at a minimum, remained constant.

Table 3-6: Region/Country of Birth of Foreign-Born Population Harrisonburg, 2000

Region or Country	Number of Foreign-Born Residents	Percent of Foreign-Born Residents	Percent of Total Harrisonburg Population	20 Ce Pop
North Europe (U.K., Ireland, Sweden)	68	1.82%	0.17%	0
Western Europe	0	1.02/0	0.1770	Sun
(Austria, France, Germany, Netherlands)	42	1.12	0.10	y F
Southern Europe				T., -
(Greece, Italy, Portugal, Spain)	30	0.80	0.07	Inco
Eastern Europe				: .
Czech. Rep., Belarus, Yugoslavia – 74	340	9.12	0.84	Mea
Russia – 230				es o
Ukraine – 30				pers
Asia	1,013	27.14	2.50	l an
E. Asia – 300				fam
S. Central Asia – 365				inco
S.E. Asia – 273				
W. Asia - 75  Africa	188	5.04	0.47	prov
Aurica Australia	8	0.21	0.47	an
Austrana Latin American	1,939	51.94	4.80	indi
Caribbean – 100	1,737	31.94	4.80	on (
Central America – 1,706				the
South America – 1,700				gen
Canada	105	2.81	0.26	eco
TOTALS	3,733	100%	9.23%	mic

being of the population. The latest statistics on income are provided by the ACS in Table 3-7, which indicate the City's median household, family, and per capita income for 2007 - 2009.

Statistics are also provided for comparison purposes for Rockingham County, Charlottesville, and Virginia. The City of Charlottesville is included for comparison because, as with Harrisonburg, its income statistics are affected by the college-aged population base. This demographic typically earns lower wages because they are in school and not working full time.

Table 3-7: Income for Households, Families and Individuals Harrisonburg, Rockingham County, Charlottesville & Virginia

	<del>,                                    </del>		500 + 1110 00 + 11 5 11110	
	Harrisonburg	Rockingham County	Charlottesville	Virginia
Median Household Income	\$32,384	\$49,878	\$39,414	\$60,539
Median Non-Family Household Income	\$19,470	\$27,482	\$26,357	\$38,023
Median Family Income	\$49,124	\$57,708	\$59,493	\$72,427
Per Capita Income	\$15,492	\$24,180	\$23,868	\$31,703

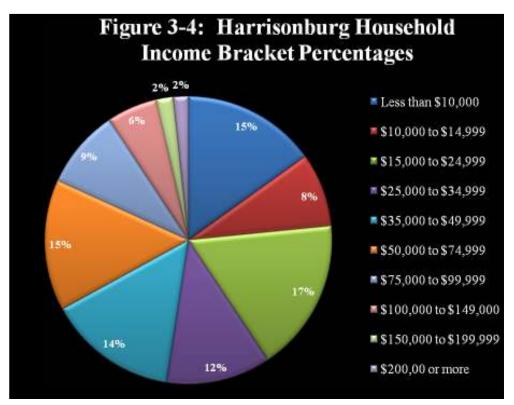
Source: 2007 – 2009 American Community Survey

The Census Bureau defines a "household" as all persons who occupy a housing unit, and a "family" as a household consisting of one or more persons who are related by birth, marriage, or adoption. A non-family household in the City would include groups of college students living together in off-campus

housing. Since many households consist of only one person, median household income is usually less than median family income. "Median" means that half of the households make more than this figure and half make less.

Although there is no way to quantify the exact impact of student households on the City's median non-family household income, the presence of low wage-earning student households must have a depressing effect on this median figure. Part of the lower income may also be attributed to the presence of lower income households drawn to an urban area for convenient access to services and lower-cost housing. This table reveals that Harrisonburg's income levels for all profiles are the lowest when compared to Rockingham County, Charlottesville, and the Commonwealth of Virginia.

Figure 3-4 below demonstrates, more specifically, the City's percentage breakdown of its household income by particular income brackets.



Source: 2007 – 2009 American Community Survey

As shown below, the Commonwealth's median household income in 2009 was higher than the U.S. median. At the same time, the City's median household income was lower than the U.S. average.

U.S. Median
Household
Income: \$51,369

Data Classes

Dollars

18342 - 18342

37034 - 43480

45131 - 60539
62629 - 69695

Figure 3-5: U.S. Median Household Income (In 2009 inflation adjusted dollars)

Source: 2007 – 2009 American Community Survey

*Poverty*: The Census Bureau uses a set of dollar income thresholds that vary by family size and composition to determine who is poor. There is only one set of "poverty thresholds" for the entire country, which is updated annually for inflation using the Consumer Price Index. The official poverty definition counts money income before taxes, excluding capital gains and noncash benefits, such as public housing, Medicaid, and food stamps.

Significantly for the City, poverty is not defined for people in institutional group quarters, including college dormitories. They are excluded from the information collected on poverty and are considered neither as "poor" nor as "nonpoor." Nevertheless, the presence of students and recent graduates of area colleges and universities who are living off-campus and working at entry level wages can be expected to affect the poverty statistics for non-family households within a college town.

Table 3-8 provides percentage estimates of people within the limits of the City whose income is below the poverty level. This information comes from the ACS population total of residents that are age 16 and over, which is 38,289. Notice that the City's percentages are higher than those for Rockingham County and for the Commonwealth of Virginia but similar to the City of Charlottesville's. As noted above, this can be attributed mainly to the City's college-aged demographic.

Table 3-8: Percentage of People Whose Income is Below the Poverty Level in Harrisonburg, Rockingham County, Charlottesville, and Virginia

	Harrisonburg	Rockingham County	Charlottesville	Virginia
All People	33.7%	10.3%	26.6%	10.3%
Percentage by Age				
Under 18 years	22.8%	12.8%	18.2%	13.6%
18 to 64 years	40.0%	9.7%	32.5%	9.4%
65 years and over	9.2%	9.0%	7.9%	8.7%

Source: 2007 – 2009 American Community Survey

The change in poverty levels for families in Harrisonburg, Rockingham County, Charlottesville, and Virginia between 2000 and 2009 are demonstrated in Table 3-9. While Harrisonburg, Rockingham County, and the Commonwealth's poverty rate increased, Charlottesville's decreased.

Table 3-9: Change in Family Poverty Levels – 2000 – 2009 Harrisonburg, Rockingham County, Charlottesville, and Virginia

9/		nilies in Poverty	2000-2009
	2000 2009		Percent Change
Harrisonburg	11.5%	15.4%	3.9%
Rockingham County	5.3%	7.0%	1.7%
Charlottesville	12.0%	8.6%	-3.4%
Virginia	7.0%	7.3%	0.3%

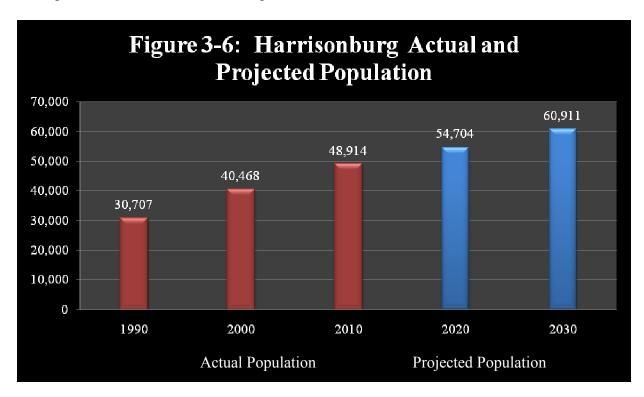
Source: 2000 U.S. Censuses of Population; 2007 – 2009 American Community Survey

### **Population Projections**

Population projections are often included in planning reports to help guide future plans for public services and facilities. There are many different ways to project future population, and all of them involve a high degree of uncertainty. Variables such as economic growth rates, birth and migration rates, and the enrollment growth rates of JMU and EMU are subject to change from year to year and will greatly affect the accuracy of population projections. It is also important to realize that the rate and distribution of future population growth in the City can be affected in a significant way by the land use policies of the City and surrounding jurisdictions. Population projections should be considered merely as a snapshot of how much the City might grow based on past growth trends. As such, they can allow the City to examine whether or not the continuation of past trends is desirable and how current land use policies might be altered to affect these trends and to move the City toward its preferred future.

The Virginia Employment Commission (VEC) regularly provides populations projections for localities throughout the State. Historically, the VEC's projections for the City have been low. Their late 1990s projection for the City's 2000 population was significantly lower than what the 2000 Census actually determined. Prior to the release of the 2010 Census, VEC projected the City would be at 45,794 in 2010, 51,215 in 2020, and 57,026 in 2030. Similar to past projections, VEC's 2010 population projection was less than the 2010 Census. Since the release of the 2010 Census, VEC has not provided an updated population forecast.

The data in Figure 3-6 below was generated by using the estimated growth rate that VEC used in their last projection for the City, which included roughly 11.8 percent growth from 2010 to 2020 and about 11.3 percent growth from 2020 to 2030. These population projections are the same projections used to determine the Urban Development Areas as described in Chapter 5 and as illustrated on the Land Use Guide map included at the end of that chapter.

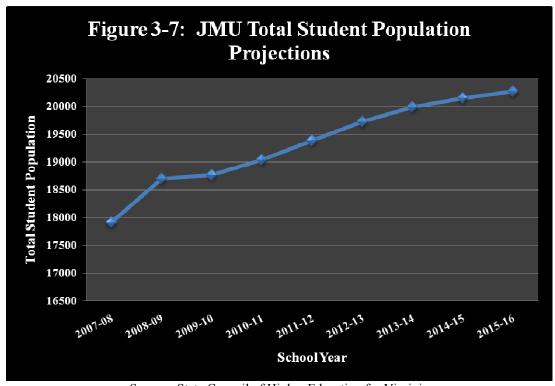


Harrisonburg's population figures include students from both universities in the City. This student population plays a significant role in the City as many of our services, infrastructure needs, business needs, and recreation and other necessities are impacted by that demographic. As such, when developing City population projections, consideration has been given to the projections for student enrollments at the universities. Eastern Mennonite University, with an enrollment of approximately 1,600 students, is not projected to experience significant growth in the foreseeable future. The information shown in Table 3-10 and visually depicted in Figure 3-7 was provided by the State Council for Higher Education in Virginia (SCHEV), and presents JMU's projected enrollment trends for all students for the listed years. While considering these projections, it should be known that JMU's actual fall 2010 enrollment totaled 19,434 students.

Table 3-10: JMU Fall Headcount Enrollment, On/Off Campus, All Students

	Act	tual		Projections							
	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16		
In-State	12,678	13,355	13,510	13,744	14,114	14,449	14,711	14,871	14,989		
Out-of- State	5,240	5,350	5,261	5,301	5,277	5,281	5,285	5,285	5,285		
Total	17,918	18,705	18,771	19,045	19,391	19,730	19,996	20,156	20,274		

Source: State Council of Higher Education for Virginia



Source: State Council of Higher Education for Virginia

### **Chapter 4 Plan Framework**

### Introduction

The Plan Framework Map provides an overview of the main ideas and themes to be addressed in the Comprehensive Plan. The map highlights areas where some degree of change is encouraged or anticipated. Table 4-1 summarizes the guiding policies for each highlighted area on the map. The map is provided at the end of this chapter.

**Table 4-1: Plan Framework Guiding Policies** 

Framework	<b>Guiding Policies</b>					
City Gateways	Strengthening the City's image and attractiveness by improving entries.					
Corridor Enhancement Areas	Improving the condition, character and quality of primary and secondary travel corridors.					
Greenway Park System	Providing a connected system of parks and greenways.					
Low Density Mixed Residential	Encouraging a mix of large and small-lot single family detached residential development areas combined with parks and green spaces.					
Medium Density Mixed Residential	Encouraging a mix of small-lot single family detached and attached residential development areas combined with parks and green spaces.					
Mixed Use Development Areas	Promoting planned mixed use areas offering innovative combinations of residential and business development.					
Downtown Revitalization Area	Reviving downtown as the heart of the City – the civic, economic, cultural, and symbolic center of city life.					
Edom Road Revitalization Area	Promoting reinvestment and sensitive redevelopment in this older commercial and industrial district.					
Neighborhood Conservation Areas	Improving the quality of life in the City's mature neighborhoods.					

This chapter further elaborates on the guiding policies provided above and addresses each area identified on the Plan Framework Map. The chapters following this one, particularly Chapter 5, provide the detailed goals, objectives and strategies that will guide the City in the implementation of the framework plan policies in this chapter.

### **City Gateways**

The Framework Map identifies the City's primary and secondary gateways—selected areas where the regional road network crosses a City boundary. Primary gateways are identified at the City's interstate interchanges. Secondary gateways are found at major secondary road corridor entrances, the entrances for Route 33 (Market Street), Route 11 (Main Street), Route 42 (High Street and Virginia Avenue), Route 659 (Port Republic Road), Route 710 (Reservoir Street), and Route 726 (Erickson Avenue and Stone Spring Road). These gateways serve as the community's front door, establishing first impressions and reinforcing images and perceptions of Harrisonburg's character, quality of life and vitality. The City should prepare an evaluation of the visual quality and entry experience at each gateway and plan for appropriate improvements. Such improvements could include updated entry signage, landscape plantings, screening of unsightly views, and new development and redevelopment recommendations.

#### **Corridor Enhancement Areas**

The Plan Framework Map highlights the important local and regional travel routes into and through the City, many of which are commercial destinations. Their quality and character strongly influence the City's accessibility, attractiveness and economic vitality. This plan recommends that a special study of each of these corridors be carried out to address such issues as:

- Land use and design quality
- Streetscape improvements
- Vehicle, pedestrian and bicycle circulation
- Access management
- Development, redevelopment and reuse opportunities
- Conservation of special features
- Improvements to utilities and public facilities, and
- Signage.

Some of these corridors include residential areas, which may be under stress due to increased traffic along the corridor. It is particularly important that the corridor studies examine whether these areas should remain residential or be permitted to convert to non-residential uses on a location-specific basis. Conversion to non-residential uses can result in building improvements along the corridor. On the other hand, continuous strips of retail and/or office uses can cause access management problems, with many commercial driveways causing dangerous traffic situations. Another consideration regarding conversion to non-residential use is the resultant expansion of the supply of potential retail/office sites in the City. If the demand is not high enough, the result may be spotty conversions that further destabilize the neighborhood. In some cases, existing residential areas along corridors can be improved by the installation of street trees and landscaping that buffer the houses from the road and by traffic calming measures. A mix of residential and non-residential uses may also be appropriate, if the best sites for conversion are identified in the corridor plan, and if design standards are applied to mitigate adverse impacts of non-residential uses on neighboring residential uses and on traffic safety.

### **Greenway Park System**

This network of green spaces serves both recreational and environmental functions along with being an alternative means of transportation. It preserves vital elements of nature in the City – the streams, floodplains, and unique wooded sites. These ribbons of green could connect the City's parks with sidewalks and bicycle and/or shared-use paths and linear open spaces, providing protection from flooding, visual relief from urban development and an attractive recreational environment. The goal of the City is to preserve the environmental and recreational values of these lands through enlightened conservation practices on its own lands and cooperative efforts with private landowners. The latter might include the purchase, acceptance of donation, and suggestion of proffers of land and easements from willing participants. Some of the concepts of this system are similar to the City's adopted Bicycle and Pedestrian Plan ideals.

#### **Mixed Residential Areas**

This plan proposes some new patterns of residential development for several remaining large undeveloped and some underdeveloped areas of the City – planned mixed residential. Two types of mixed residential use are proposed, low density and medium density, as described below:

Low Density Mixed Residential

These areas identified on the Plan Framework Map and located at the edge of the City are planned for residential development containing a mix of large and small-lot single family detached dwellings and attractive green spaces. Planned "open space" (also known as "cluster") developments are desired. The

City encourages innovative residential building types that permit creative subdivision design solutions for neighborhood cohesiveness, walkability, connected street grids, community green spaces, and protection of environmental resources. Examples of such innovative residential building types could include zero lot-line development and patio homes as well as other new single family residential forms. The gross density of development in these areas should be in the range of 1 to 6 dwelling units per acre.

### Medium Density Mixed Residential

These largely undeveloped areas continue the existing medium density character of adjacent areas, but in a different form. They are planned for small-lot single family detached and single family attached neighborhoods where green spaces are integral design features. They should be planned communities that exhibit the same innovative features as described for the low density version of mixed residential development described above. The gross density of development in these areas should be in the range of 4 to 12 dwelling units per acre and commercial uses would be expected to have an intensity equivalent to a Floor Area Ratio of at least 0.4, although the City does not measure commercial intensity in that way.

### **Mixed Use Development Areas**

These areas combine residential and non-residential uses in planned neighborhoods where the different uses are finely mixed instead of separated. Quality architectural design features and strategic placement of green spaces will ensure development compatibility. These areas are prime candidates for "live-work" and traditional neighborhood developments. Live-work developments combine residential and office/service uses allowing people to both live and work in the same area. Live-work spaces may be combined in the same building or on the same street. All buildings have a similar residential scale.

Traditional neighborhood development permits integrated mixing of residential, retail, office and employment uses to create a neighborhood with the following characteristics:

- The design of the neighborhood allows residents to work, shop, and carry out many of life's other activities within the neighborhood.
- A mix of land uses is provided. The proximity of uses allows residents to walk, ride a bicycle, or take transit for many trips between home, work, shopping, and school.
- A variety of housing types is provided at a range of densities, types (multifamily, townhouse, and single family), and costs. Neighborhoods are heterogeneous mixes of residences in close proximity to commercial and employment uses.
- The neighborhood includes a retail, office, employment, and/or entertainment core to provide economic and social vitality, as well as a major focus and meeting place in the community. The core area may contain high density residential uses as well, particularly in the form of multifamily units on the upper floors of buildings over retail or office uses.
- Architectural, landscape and/or other design measures are employed to ensure compatibility between the different uses.
- The circulation system serves many modes of transportation and provides choices for alternative transportation routes. Streets, alleys, and pedestrian and bicycle paths connect to the surrounding area. Streets and alleys generally follow a grid pattern to provide these route choices and connections. Traffic calming techniques may be used to reduce vehicle speed and increase pedestrian and bicycle safety.
- The overall intensity of development is designed to be high enough to support transit service.
- A system of parks; open spaces; and civic, public, and institutional uses is included to create a high quality of life and civic identity for the community.

• The cluster concept is embraced so as to concentrate development in environmentally suitable areas and to preserve and protect important environmental and cultural resources.

Live-work areas should include most of the qualities of traditional neighborhood developments except that a concentrated core area is not required, the retail component is very minor, and residential-scale office uses may be more finely mixed with residential uses. Live-work development is recommended for the following mixed use development area shown on the Plan Framework Map:

• The area north of Country Club Road, east of I-81, and west of Linda Lane.

Traditional neighborhood development is recommended for the following mixed use areas shown on the Plan Framework Map:

- The area west of I-81 bounded by Old Furnace Road, Smithland Road and I-81, and
- the area between Long Avenue and Hawkins Street south of East Market Street.

The City will be flexible in applying the above location recommendations for the types of mixed use areas. The City may permit a live-work development in a recommended traditional neighborhood development area and vice versa, if the proposed plan exhibits excellent design qualities and is compatible with neighboring areas.

Apartments are permitted only if single family detached and attached units are also provided and together cover a greater percentage of the project site.

#### **Revitalization Areas**

The following areas of the City are already developed, but have experienced some symptoms of decline. Revitalization and selected redevelopment, according to thoughtful detailed plans, are needed to ensure that these areas remain assets to the City, property owners, businesses, and residents.

### Downtown Revitalization Area

In concert with Harrisonburg Downtown Renaissance, the City of Harrisonburg seeks to revive downtown as the heart of the City and region, an economic engine, source of civic pride, arts and entertainment center, and quality place to shop, work and live. The boundaries of the downtown area coincide with the City's identified Arts & Cultural District and include the central business core, portions of the James Madison University Campus, and transitional mixed use/residential areas that connect downtown to surrounding neighborhoods. Court Square is the historic and symbolic center; a quarter mile radius from the center of the square defines the area within easy walking distance. The Virginia Main Street approach to revitalizing downtown forms the core principles for improving the area and focuses on organization, design, promotion and economic restructuring. In regard to design, the City will work with Harrisonburg Downtown Renaissance to guide the rehabilitation and development of the area including the appropriate densities, intensity and character of downtown. Further guidance on the revitalization of downtown is provided in Chapter 14.

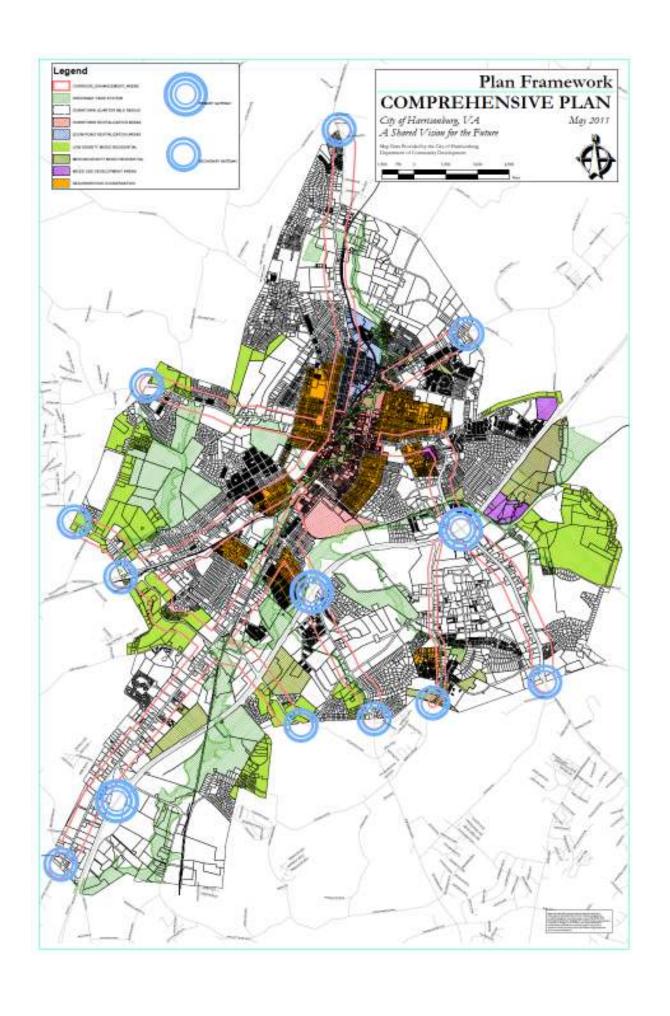
### Edom Road Revitalization Area

The City seeks to create a redevelopment and revitalization plan for this area located next to downtown, an area that currently exhibits low quality and deteriorating building stock and conflicting land uses. The goal is to encourage reinvestment and to seek coordinated redevelopment of the area transforming it into an attractive and vital City asset. See Chapter 14 for additional guidance.

### **Neighborhood Conservation Areas**

Although many are rich in historic and cultural fabric, some neighborhoods face challenges to reinvestment and rehabilitation while others confront preservation issues. Some are suffering from poorly maintained, deteriorating, or vacant homes and spot conversions of single family homes to apartments, often for students. Other areas contain older deteriorating apartment buildings. Some are affected by encroaching commercial development or inappropriate conversion of houses to non-residential uses. Impacts of traffic on highly traveled roadways may also be creating neighborhood stress. This plan recommends that for each of these areas a community-based neighborhood plan be developed to address these and other issues raised by the community.

Chapters 6 and 14 provide goals, objectives and strategies to guide the conservation of these existing neighborhoods.



# **Chapter 5** Land Use & Development Quality

### Introduction

One of the primary functions of a comprehensive plan is to set forth the community's policies regarding the future use of land and the desired quality of development. This chapter addresses these very important land use and development quality issues. While the Plan Framework element, Chapter 4, discusses where changes in land use and development character are encouraged or anticipated, this chapter makes recommendations for land use and development character throughout the City. It provides a recommended map of future land uses, the Land Use Guide, as well as detailed goals, objectives and strategies to implement the map and encourage quality development.

# **Background**

# **Existing Land Use**

A map of existing land use (as of Summer 2009) was prepared by linking the City's real estate assessment files to the Department of Planning and Community Development's GIS files. The City's assessors maintain data on each property in the City, including how it is currently used. This data was accessed, recategorized as necessary, and then mapped and checked. From this map, the Department of Planning and Community Development compiled statistics on the acreage in each land use category, which are depicted in the following table and pie chart.

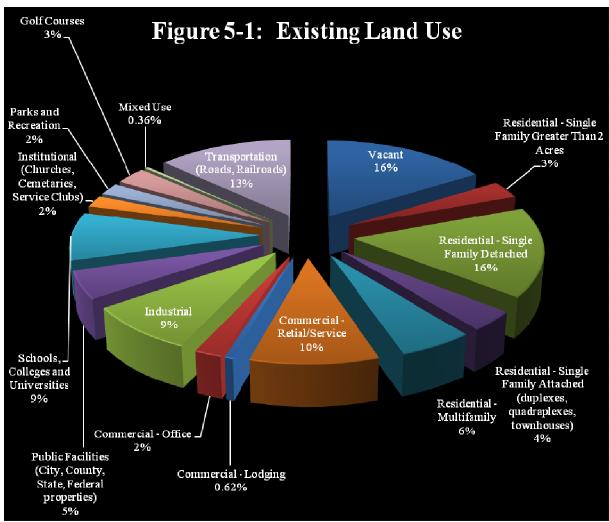
Table 5-1: Existing Land Use in the City of Harrisonburg

Land Use         Area in Acres         Percentage of City Land Area not in Roads / RR         Percentage of Total City Land Area not in Roads / RR           Vacant         1802.95         18.70%         16.20%           Residential - Single Family Greater than 2 acres         343.09         3.56%         3.08%           Residential - Single Family Detached         1803.11         18.71%         16.20%           Residential - Single Family Attached (duplexes, quadraplexes, townhouses)         404.02         4.19%         3.63%           Residential - Multifamily         618.08         6.41%         5.55%           Commercial - Retail / Service         1066.58         11.06%         9.58%           Commercial - Office         222.38         2.31%         2.00%           Industrial         946.98         9.82%         8.51%           Public Facilities (city, county, state, federal properties)         563.13         5.84%         5.06%           Schools, Colleges and Universities         956.02         9.92%         8.59%           Institutional (churches, cemeteries, service clubs)         230.13         2.39%         2.07%           Parks and Recreation         235.67         2.44%         2.12%           Golf Courses         39.57         0.41%         0.36%	Table 3-1. Existing Land Us	e in the City o	1 IIai i isonbui 5	
Residential - Single Family Greater than 2 acres         343.09         3.56%         3.08%           Residential - Single Family Detached         1803.11         18.71%         16.20%           Residential - Single Family Attached (duplexes, quadraplexes, townhouses)         404.02         4.19%         3.63%           Residential - Multifamily         618.08         6.41%         5.55%           Commercial - Retail / Service         1066.58         11.06%         9.58%           Commercial - Lodging         68.87         0.71%         0.62%           Commercial - Office         222.38         2.31%         2.00%           Industrial         946.98         9.82%         8.51%           Public Facilities (city, county, state, federal properties)         563.13         5.84%         5.06%           Schools, Colleges and Universities         956.02         9.92%         8.59%           Institutional (churches, cemeteries, service clubs)         230.13         2.39%         2.07%           Parks and Recreation         235.67         2.44%         2.12%           Golf Courses         339.07         3.52%         3.05%           Mixed Use         39.57         0.41%         0.36%           Transportation (Roads, Railroads)         1488.86         1	Land Use	Area in Acres	City Land Area not in Roads /	
Residential - Single Family Detached         1803.11         18.71%         16.20%           Residential - Single Family Attached (duplexes, quadraplexes, townhouses)         404.02         4.19%         3.63%           Residential - Multifamily         618.08         6.41%         5.55%           Commercial - Retail / Service         1066.58         11.06%         9.58%           Commercial - Lodging         68.87         0.71%         0.62%           Commercial - Office         222.38         2.31%         2.00%           Industrial         946.98         9.82%         8.51%           Public Facilities (city, county, state, federal properties)         563.13         5.84%         5.06%           Schools, Colleges and Universities         956.02         9.92%         8.59%           Institutional (churches, cemeteries, service clubs)         230.13         2.39%         2.07%           Parks and Recreation         235.67         2.44%         2.12%           Golf Courses         39.57         0.41%         0.36%           Mixed Use         39.57         0.41%         0.36%           Transportation (Roads, Railroads)         1488.86         13.38 %	Vacant	1802.95	18.70%	16.20%
Residential - Single Family Attached (duplexes, quadraplexes, townhouses)       404.02       4.19%       3.63%         Residential - Multifamily       618.08       6.41%       5.55%         Commercial - Retail / Service       1066.58       11.06%       9.58%         Commercial - Lodging       68.87       0.71%       0.62%         Commercial - Office       222.38       2.31%       2.00%         Industrial       946.98       9.82%       8.51%         Public Facilities (city, county, state, federal properties)       563.13       5.84%       5.06%         Schools, Colleges and Universities       956.02       9.92%       8.59%         Institutional (churches, cemeteries, service clubs)       230.13       2.39%       2.07%         Parks and Recreation       235.67       2.44%       2.12%         Golf Courses       339.07       3.52%       3.05%         Mixed Use       39.57       0.41%       0.36%         Transportation (Roads, Railroads)       1488.86       13.38 %	Residential - Single Family Greater than 2 acres	343.09	3.56%	3.08%
quadraplexes, townhouses)         Residential - Multifamily         618.08         6.41%         5.55%           Commercial - Retail / Service         1066.58         11.06%         9.58%           Commercial - Lodging         68.87         0.71%         0.62%           Commercial - Office         222.38         2.31%         2.00%           Industrial         946.98         9.82%         8.51%           Public Facilities (city, county, state, federal properties)         563.13         5.84%         5.06%           Schools, Colleges and Universities         956.02         9.92%         8.59%           Institutional (churches, cemeteries, service clubs)         230.13         2.39%         2.07%           Parks and Recreation         235.67         2.44%         2.12%           Golf Courses         339.07         3.52%         3.05%           Mixed Use         39.57         0.41%         0.36%           Transportation (Roads, Railroads)         1488.86         13.38 %	Residential - Single Family Detached	1803.11	18.71%	16.20%
Residential - Multifamily         618.08         6.41%         5.55%           Commercial - Retail / Service         1066.58         11.06%         9.58%           Commercial - Lodging         68.87         0.71%         0.62%           Commercial - Office         222.38         2.31%         2.00%           Industrial         946.98         9.82%         8.51%           Public Facilities (city, county, state, federal properties)         563.13         5.84%         5.06%           Schools, Colleges and Universities         956.02         9.92%         8.59%           Institutional (churches, cemeteries, service clubs)         230.13         2.39%         2.07%           Parks and Recreation         235.67         2.44%         2.12%           Golf Courses         339.07         3.52%         3.05%           Mixed Use         39.57         0.41%         0.36%           Transportation (Roads, Railroads)         1488.86         100.00 %	Residential - Single Family Attached (duplexes,	404.02	4.19%	3.63%
Commercial - Retail / Service         1066.58         11.06%         9.58%           Commercial - Lodging         68.87         0.71%         0.62%           Commercial - Office         222.38         2.31%         2.00%           Industrial         946.98         9.82%         8.51%           Public Facilities (city, county, state, federal properties)         563.13         5.84%         5.06%           Schools, Colleges and Universities         956.02         9.92%         8.59%           Institutional (churches, cemeteries, service clubs)         230.13         2.39%         2.07%           Parks and Recreation         235.67         2.44%         2.12%           Golf Courses         339.07         3.52%         3.05%           Mixed Use         39.57         0.41%         0.36%           Transportation (Roads, Railroads)         1488.86         13.38 %	quadraplexes, townhouses)			
Commercial - Lodging         68.87         0.71%         0.62%           Commercial - Office         222.38         2.31%         2.00%           Industrial         946.98         9.82%         8.51%           Public Facilities (city, county, state, federal properties)         563.13         5.84%         5.06%           Schools, Colleges and Universities         956.02         9.92%         8.59%           Institutional (churches, cemeteries, service clubs)         230.13         2.39%         2.07%           Parks and Recreation         235.67         2.44%         2.12%           Golf Courses         339.07         3.52%         3.05%           Mixed Use         39.57         0.41%         0.36%           SUBTOTAL (Land in Parcels)         9639.65         100.00 %           Transportation (Roads, Railroads)         1488.86         13.38 %	Residential - Multifamily	618.08	6.41%	5.55%
Commercial - Office         222.38         2.31%         2.00%           Industrial         946.98         9.82%         8.51%           Public Facilities (city, county, state, federal properties)         563.13         5.84%         5.06%           Schools, Colleges and Universities         956.02         9.92%         8.59%           Institutional (churches, cemeteries, service clubs)         230.13         2.39%         2.07%           Parks and Recreation         235.67         2.44%         2.12%           Golf Courses         339.07         3.52%         3.05%           Mixed Use         39.57         0.41%         0.36%           SUBTOTAL (Land in Parcels)         9639.65         100.00 %           Transportation (Roads, Railroads)         1488.86         13.38 %	Commercial - Retail / Service	1066.58	11.06%	9.58%
Industrial         946.98         9.82%         8.51%           Public Facilities (city, county, state, federal properties)         563.13         5.84%         5.06%           Schools, Colleges and Universities         956.02         9.92%         8.59%           Institutional (churches, cemeteries, service clubs)         230.13         2.39%         2.07%           Parks and Recreation         235.67         2.44%         2.12%           Golf Courses         339.07         3.52%         3.05%           Mixed Use         39.57         0.41%         0.36%           SUBTOTAL (Land in Parcels)         9639.65         100.00 %           Transportation (Roads, Railroads)         1488.86         13.38 %	Commercial - Lodging	68.87	0.71%	0.62%
Public Facilities (city, county, state, federal properties)       563.13       5.84%       5.06%         Schools, Colleges and Universities       956.02       9.92%       8.59%         Institutional (churches, cemeteries, service clubs)       230.13       2.39%       2.07%         Parks and Recreation       235.67       2.44%       2.12%         Golf Courses       339.07       3.52%       3.05%         Mixed Use       39.57       0.41%       0.36%         SUBTOTAL (Land in Parcels)       9639.65       100.00%         Transportation (Roads, Railroads)       1488.86       13.38 %	Commercial - Office	222.38	2.31%	2.00%
Schools, Colleges and Universities       956.02       9.92%       8.59%         Institutional (churches, cemeteries, service clubs)       230.13       2.39%       2.07%         Parks and Recreation       235.67       2.44%       2.12%         Golf Courses       339.07       3.52%       3.05%         Mixed Use       39.57       0.41%       0.36%         SUBTOTAL (Land in Parcels)       9639.65       100.00%         Transportation (Roads, Railroads)       1488.86       13.38 %	Industrial	946.98	9.82%	8.51%
Institutional (churches, cemeteries, service clubs)         230.13         2.39%         2.07%           Parks and Recreation         235.67         2.44%         2.12%           Golf Courses         339.07         3.52%         3.05%           Mixed Use         39.57         0.41%         0.36%           SUBTOTAL (Land in Parcels)         9639.65         100.00%           Transportation (Roads, Railroads)         1488.86         13.38%	Public Facilities (city, county, state, federal properties)	563.13	5.84%	5.06%
Parks and Recreation         235.67         2.44%         2.12%           Golf Courses         339.07         3.52%         3.05%           Mixed Use         39.57         0.41%         0.36%           SUBTOTAL (Land in Parcels)         9639.65         100.00 %           Transportation (Roads, Railroads)         1488.86         13.38 %	Schools, Colleges and Universities	956.02	9.92%	8.59%
Golf Courses         339.07         3.52%         3.05%           Mixed Use         39.57         0.41%         0.36%           SUBTOTAL (Land in Parcels)         9639.65         100.00 %           Transportation (Roads, Railroads)         1488.86         13.38 %	Institutional (churches, cemeteries, service clubs)	230.13	2.39%	2.07%
Mixed Use         39.57         0.41%         0.36%           SUBTOTAL (Land in Parcels)         9639.65         100.00 %           Transportation (Roads, Railroads)         1488.86         13.38 %	Parks and Recreation	235.67	2.44%	2.12%
SUBTOTAL (Land in Parcels)         9639.65         100.00 %           Transportation (Roads, Railroads)         1488.86         13.38 %	Golf Courses	339.07	3.52%	3.05%
Transportation (Roads, Railroads) 1488.86 13.38 %	Mixed Use	39.57	0.41%	0.36%
Transportation (Roads, Railroads) 1488.86 13.38 %				
1 ' ' '	SUBTOTAL (Land in Parcels)	9639.65	100.00 %	
<b>TOTAL</b> (Total City Area) 11128.51 100.00 %	Transportation (Roads, Railroads)	1488.86		13.38 %
	TOTAL (Total City Area)	11128.51		100.00 %

Source: Department of Planning and Community Development \*Some parcels at the edge of the city have portions that extend into the county. The county acreage is not included here. Data compiled in Summer 2009.

The categories of land use shown in the pie chart are self-explanatory except for the single family detached residential greater than 2 acres category. These large parcels are categorized as single-family detached residential land because they have a house on property. A number of them are large

properties, farms in many cases. However, it would not be accurate to categorize these properties as entirely residential, since significant portions of the properties are not developed. These "minimally developed" properties can easily be developed more densely and are more similar to vacant land than to single family residential subdivisions. The total of vacant land and single-family land greater than 2 acres (2,146 acres) represents the remaining "developable" land in the City (22 % of the City area in parcels).



\*Some parcels at the edge of the City have portions that extend into the County. The County acreage is not included here. Data compiled in Summer 2009.

# Zoning

The City's Official Zoning Map determines where different types of uses are currently permitted in the City. Zoning districts are applied to both developed and vacant lands and thus determine to a great extent not only the types and locations of existing land uses, but also of future land uses. Table 5-2 provides a breakdown of the City's land area by zoning district.

The Zoning Ordinance includes several overlay districts. The Institutional Overlay District has been applied to 38.51 acres of B-2 zoned land, 1.23 acres of R-2 zoned land, and 162.33 acres of R-3 zoned land. This overlay district provides supplemental regulations for Rockingham Memorial Hospital facilities, Eastern Mennonite University, Eastern Mennonite High School, and the Virginia Mennonite Retirement Community. The Residential Professional Overlay District applies to 12.53 acres of land

zoned Urban Residential. This overlay permits professional offices and mixed residential/office buildings.

Table 5-2: City Land Area by Zoning District

Zoning District	Area in Acres	Percentage of City Land Area Not in Roads / Railroads
R-1 Single Family Residential	3080.51	31.95%
R-2 Residential	942.41	9.78%
R-3 Multiple Dwelling Residential	1662.51	17.23%
R-4 Planned Unit Residential	169.69	1.76%
R-5, High Density Residential District	140.42	1.46%
R-6, Low Density Mixed Residential Planned Community District	7.61	0.08%
R-7, Medium Density Mixed Residential Planned Community District	124.57	1.29%
U-R Urban Residential	47.53	0.49%
B-1 Central Business District	92.73	0.96%
B-2 General Business District	1451.85	15.06%
M-1 General Industrial	1921.13	19.93%
TOTAL	9640.96	100.00 %

Source: Department of Planning and Community Development

Many cities are interested to know the zoning of remaining vacant and minimally developed land. Such figures are useful for determining future growth areas and the land uses that will occur in these growth areas. Table 5-3 summarizes the zoning classification of Harrisonburg's remaining vacant and minimally developed land as of Summer 2009.

<sup>\*</sup> Some parcels at the edge of the City have portions that extend into the County. The County acreage is not included here. Data compiled in March 2011.

Table 5-3: Zoning Classification of Vacant and Minimally Developed Land

Zaning District	Vacant and Minimally Developed
Zoning District	Acres
R-1 Single Family Residential	953.30
R-2 Residential	255.56
R-3 Multiple Dwelling Residential	292.01
R-4 Planned Unit Residential	13.30
R-5, High Density Residential District	129.80
R-6, Low Density Mixed Residential Planned	7.61
Community District	7.01
R-7, Medium Density Mixed Residential Planned	121.56
Community District	121.30
U-R Urban Residential	4.26
B-1 Central Business District	12.40
B-2 General Business District	427.34
M-1 General Industrial	475.48
TOTAL	2692.62

Source: Department of Planning and Community Development

Approximately 35 percent of the remaining vacant land is zoned for single-family residential development (953 acres zoned R-1). For economic development, the City has roughly 915 acres available; almost 18 percent available for industrial development (within the M-1 district) and about 16 percent and less than 1 percent available for general business uses (within the B-2 and B-1 classifications respectively).

### Planned Land Use

The Land Use Guide represents the City's policy for what it would like to be—its "land use vision." The 2004 Comprehensive Plan included a Land Use Guide (amended in 2006), which recommended future land uses. In some cases, the Land Use Guide recommended land uses different than what current zoning would allow. The 2004 Land Use Guide was similar to the 1998 Land Use Guide, however major differences were found in their recommendations for the larger undeveloped areas of the City at that time. Table 5-4 categorizes land according to the planned land uses of the 2004 (amended 2006) Land Use Guide.

<sup>\*</sup> Some parcels at the edge of the City have portions that extend into the County. The County acreage is not included here. Data compiled in Summer 2009.

Table 5-4: City Land Use As Recommended by the 2006<sup>^</sup> Land Use Guide

Planned Land Use	Area in Acres	Percentage of City Land Area Not in Roads / Railroads
Low Density Residential	1646.14	17.08%
Low Density Mixed Residential	698.34	7.24%
Neighborhood Residential	612.62	6.36%
Medium Density Residential	695.63	7.22%
Medium Density Mixed Residential	457.07	4.74%
High Density Residential	286.19	2.97%
Mixed Use Development	302.02	3.13%
Commercial	1431.31	14.85%
Planned Business	72.53	0.75%
Professional	83.61	0.87%
Industrial	1369.12	14.20%
Institutional	208.00	2.16%
Public / Semi-Public	983.93	10.21%
Conservation, Recreation and Open Space	793.14	8.23%
TOTAL	9639.65	100%

Source: Department of Planning and Community Development

The county acreage is included here.

#### The 2011 Land Use Guide

The 2011 Land Use Guide, provided at the end of this chapter, recommends future land uses in the City. It is the official land use policy map of the Comprehensive Plan and is to be used as a guide in decisions on such matters as rezoning and special use permit proposals and the location of public facilities. Since the last Comprehensive Plan update, new zoning districts and other ordinance amendments have been established, which has allowed the land use guide and current zoning regulations to complement one another better than they have in years past. This should provide better guidance and regulations to allow developers to strive for desired land uses. The categories of land use on the map are described below.

The innovation in building types, creativity in subdivision design, variety of housing types and mixture of uses described in the residential designations and the Mixed Use Development Area are intended to offer assistance in the construction, rehabilitation and maintenance of housing for all income levels, including affordable housing. The City will work with property owners, developers and others who seek to implement appropriate measures to sufficiently meet the needs of residents of all levels of income while also considering the current and future needs of the local planning district.

<sup>\*</sup> Some parcels at the edge of the city have portions that extend into the county.

<sup>^</sup>The Land Use Guide was amended in 2006 after the adoption of the 2004 Comprehensive Plan.

### Low Density Residential

These areas consist of single family detached dwellings with a maximum density of 1 to 4 units per acre. Low density sections are found mainly in and around well established neighborhoods. The low density residential areas are designed to maintain the existing character of neighborhoods and to provide traditional areas for home ownership.

### **Low Density Mixed Residential**

These large undeveloped areas located at the edge of the City are planned for residential development containing a mix of large and small-lot single family detached dwellings and attractive green spaces. Planned "open space" (also known as "cluster") developments are encouraged. The intent is to allow innovative residential building types and permit creative subdivision design solutions that promote neighborhood cohesiveness, walkability, connected street grids, community green spaces, and protection of environmental resources. Such innovative residential building types as zero lot-line development and patio homes will be considered as well as other new single family residential forms. The gross density of development in these areas should be in the range of 1 to 6 dwelling units per acre

# **Neighborhood Residential**

These are older neighborhoods, which can be characterized by large housing units on small lots. This type of land use highlights those neighborhoods in which existing conditions dictate the need for careful consideration of the types and densities of future residential development. Infill development and redevelopment must be designed so as to be compatible with the existing character of the neighborhood.

# **Medium Density Residential**

The medium density residential areas are designated in areas near major thoroughfares or commercial areas. Most of these areas have been developed or are approved for development of a variety of housing types such as single-family, duplex, and in special circumstances, apartments. Depending on the specific site characteristics, densities in these areas may range from 1 to 15 units per acre.

## **Medium Density Mixed Residential**

These largely undeveloped areas continue the existing medium density character of adjacent areas, but in a different form. They are planned for small-lot single family detached and single family attached neighborhoods where green spaces are integral design features. Apartments could also be permitted under special circumstances. They should be planned communities that exhibit the same innovative features as described for the low density version of mixed residential development described above. The gross density of development in these areas should be in the range of 4 to 12 dwelling units per acre and commercial uses would be expected to have an intensity equivalent to a Floor Area Ratio of at least 0.4, although the City does not measure commercial intensity in that way.

# **High Density Residential**

A number of areas in the City have been developed in high density residential use, mostly apartment buildings at densities ranging from 12 to 24 dwelling units per acre. Many of these existing clusters of multifamily development and adjacent areas approved or planned for such development are identified as high density residential on the Land Use Guide.

## **Mixed Use Development Areas**

The Mixed Use Development category includes both existing and proposed new mixed use areas. Downtown is an existing area that exhibits and is planned to continue to contain a mix of land uses.

The quality and character of the mix of uses in downtown should be governed by a downtown revitalization plan, as recommended in Chapter 14, Revitalization. New mixed use areas shown on the Land Use Guide map are intended to combine residential and non-residential uses in planned neighborhoods where the different uses are finely mixed instead of separated. Quality architectural design features and strategic placement of green spaces will ensure development compatibility. These areas are prime candidates for "live-work" and traditional neighborhood developments. Live-work developments combine residential and office/service uses allowing people to both live and work in the same area. Live-work spaces may be combined in the same building or on the same street. All buildings have a similar residential scale. Traditional neighborhood development permits integrated mixing of residential, retail, office and employment uses to create a neighborhood with the following characteristics:

- The design of the neighborhood allows residents to work, shop, and carry out many of life's other activities within the neighborhood.
- A mix of land uses is provided. The proximity of uses allows residents to walk, ride a bicycle, or take transit for many trips between home, work, shopping, and school.
- A variety of housing types is provided at a range of densities, types (multifamily, townhouse, and single family), and costs. Neighborhoods are heterogeneous mixes of residences in close proximity to commercial and employment uses.
- The neighborhood includes a retail, office, employment, and/or entertainment core to provide economic and social vitality, as well as a major focus and meeting place in the community.
- The circulation system serves many modes of transportation and provides choices for alternative transportation routes. Streets, alleys, and pedestrian and bike paths connect to the surrounding area. Streets and alleys generally follow a grid pattern to provide these route choices and connections. Traffic calming techniques may be used to reduce vehicle speed and increase pedestrian and bicycle safety.
- The overall intensity of development is designed to be high enough to support transit service.
- A system of parks; open spaces; and civic, public, and institutional uses is included to create a high quality of life and civic identity for the community.
- The cluster concept is embraced so as to concentrate development in environmentally suitable areas and to preserve and protect important environmental and cultural resources.

The gross residential density in areas outside downtown should not exceed an average of 15 units per acre, though all types of residential units are permitted: single family detached, single family attached and apartments. Apartments are permitted only if single family detached and/or attached units are also provided and together cover a greater percentage of the project site. Residential densities in downtown may be higher than an average of 15 units per acre, and commercial uses would be expected to have an intensity equivalent to a Floor Area Ratio of at least 0.4, although the City does not measure commercial intensity in that way.

## Commercial

Commercial uses include retail, office, wholesale, or service functions. Restaurant and lodging uses are also included. These areas are generally found along the City's major travel corridors. The largest concentration of commercial land use is located between E. Market Street and Reservoir Street and includes the Valley Mall, a number of shopping centers, and significant office development.

#### **Planned Business**

These areas are suitable for commercial development but need careful controls to ensure compatibility with adjacent land uses. The maintenance of functional and aesthetic integrity should be emphasized in review of applications for development and redevelopment and should address such matters as: control

of access; use of service roads or reverse frontage development; landscaping and buffering; parking; setback; signage; building mass and height; and orientation in regard to aesthetic concerns.

#### **Professional**

These areas are designated for professional service oriented uses with consideration to the character of the area. These uses are found in the residential areas along major thoroughfares and adjacent to the Central Business District. Conversion of houses in these areas to office and professional service uses is permitted with appropriate attention to maintaining compatibility with adjacent residential areas in the same manner as described for Planned Business areas.

### **Industrial**

These areas are composed of land and structures used for light and general manufacturing, wholesaling, warehousing, high-technology, research and development and related activities. They include the major existing and future employment areas of the City.

### **Public/Semi-Public**

These lands are designated for public and semi-public use. They include lands owned or leased by the Commonwealth of Virginia, the federal government, the City of Harrisonburg, and other governmental organizations. Examples of uses included in this category are public schools, libraries, City Hall and City administrative and support facilities. City parks are included in the Conservation, Recreation and Open Space category

### **Institutional**

Lands designated for development by certain nonprofit and public institutional uses such as private colleges and universities, hospitals, offices of nonprofit organizations, community assembly uses and institutions that provide for the shelter and care of people.

# Conservation, Recreation and Open Space

The City's parks and golf course are included in this category, as well as private open space recreation uses, such as country clubs.

Table 5-5 presents the amounts and percentages of the various land uses recommended by the 2011 Land Use Guide.

Table 5-5: City Land Use As Recommended by the 2011 Land Use Guide

Planned Land Use	Area in Acres	Percentage of City Land Area Not in Roads / Railroads
Low Density Residential	1480.14	15.35%
Low Density Mixed Residential	949.51	9.85%
Neighborhood Residential	614.58	6.37%
Medium Density Residential	645.76	6.69%
Medium Density Mixed Residential	475.83	4.94%
High Density Residential	284.12	2.95%
Mixed Use Development	209.80	2.18%
Commercial	1369.77	14.21%
Planned Business	124.89	1.30%
Professional	75.85	0.79%
Industrial	1336.05	13.86%
Institutional	194.17	2.01%
Public / Semi-Public	1099.88	11.41%
Conservation, Recreation and Open Space	780.51	8.10%
TOTAL	0640.06	1000/
TOTAL	9640.96	100%

Source: Department of Planning and Community Development

### **Urban Development Areas**

§15.2-2223.1 of the Virginia Code requires the City to designate urban development areas (UDAs) that are appropriate for residential development densities equivalent to at least four single-family residences per acre, six townhouses per acre, or 12 apartment-style units per acre, and commercial development densities equivalent to at least a floor area ratio of 0.4.

These designated UDAs are shown on the Land Use Guide Map. The land use designation descriptions indicate the general density ranges that are provided within them, which reflect the City's preferred land use intensities for these areas, and are consistent with the state code requirements.

The state code requires that the UDAs be able to accommodate the projected residential and commercial growth for the next 10 to 20 years. The City is expected to add 5,790 people during the next 10 years, and 11,997 people during the next 20 years. This growth will require an estimated 2,316 to 4,799 housing units and 347,420 to 719,835 square feet of commercial space (retail and office). The areas designated as UDAs are able to accommodate this capacity of development, based upon the policies set forth in the land use guide and this chapter.

§15.2-2223.1 of the Code also requires that the Comprehensive Plan incorporate principles of traditional neighborhood design in the UDA, including pedestrian-friendly road design, interconnection of new local streets with existing local streets and roads, connectivity of road and pedestrian networks, preservation of natural areas, mixed-use neighborhoods, including mixed housing types, with affordable housing to meet

<sup>\*</sup> Some parcels at the edge of the city have portions that extend into the county. The county acreage is included here. Data Compiled in March 2011.

the projected family income distributions of future residential growth, reduction of front and side yard building setbacks, and reduction of subdivision street widths and turning radii at subdivision street intersections. It also requires that the Plan describe any financial or other incentives for development in the UDAs. The City intends that these principles be part of the strategies set forth in this section, particularly the following:

- 1.4.4 regarding traditional neighborhood development,
- 2.1.1 regarding mixed use development,
- 2.2.1 regarding incentives for mixed residential neighborhoods,
- 2.2.2 regarding incentives for live-work neighborhoods, and
- 2.2.3 regarding incentives for traditional neighborhood development.

The following goals, objectives and strategies address the major land use changes recommended by the Plan Framework Map and the 2011 Land Use Guide as well as recommended policies to improve the design and character of new development and redevelopment.

# Land Use & Development Quality Goals, Objectives & Strategies

- Goal 1. To improve the quality and compatibility of land use and development.
  - Objective 1.1 To promote development and redevelopment that reinforces the City's unique character and sense of place.
    - Strategy 1.1.1 To work with citizens to identify design elements that define the City's unique character and sense of place or that would improve design quality. Administration of a community character or visual preference survey would help in this effort.
    - Strategy 1.1.2 To develop a set of design guidelines for new development and redevelopment based on these design elements. Such design guidelines might address such matters as:
      - Landscaping
      - Preservation of green space
      - Preservation of historic resources
      - Placement of buildings and parking lots
      - Building bulk and height
      - How buildings address the street
      - Signage
      - Lighting
    - Strategy 1.1.3 To incorporate appropriate elements of the design guidelines into the City's land use codes, while leaving other elements discretionary.
  - Objective 1.2 To ensure that the design of streets, public facilities, and other public investments reinforces the City's unique character and sense of place.
    - Strategy 1.2.1 To use the same process as outlined under Objective 1.1 to develop design guidelines for public development projects.
    - Strategy 1.2.2 To review and revise the City's street standards so as not to jeopardize VDOT funding, yet at the same time to seek to reduce street widths,

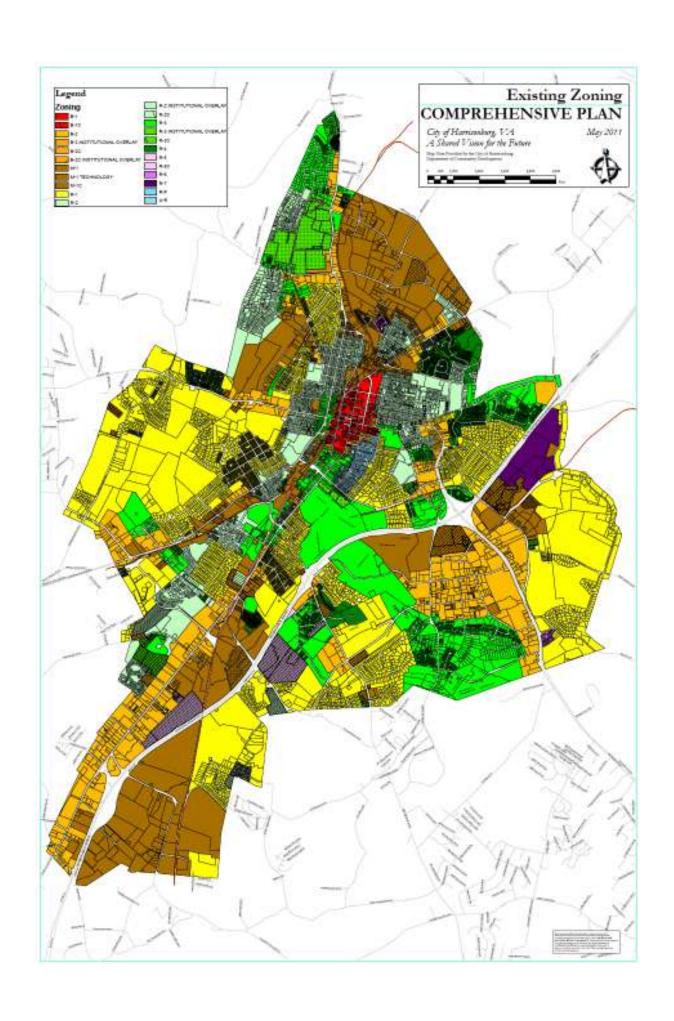
incorporate traffic calming measures and/or permit low impact development design features.

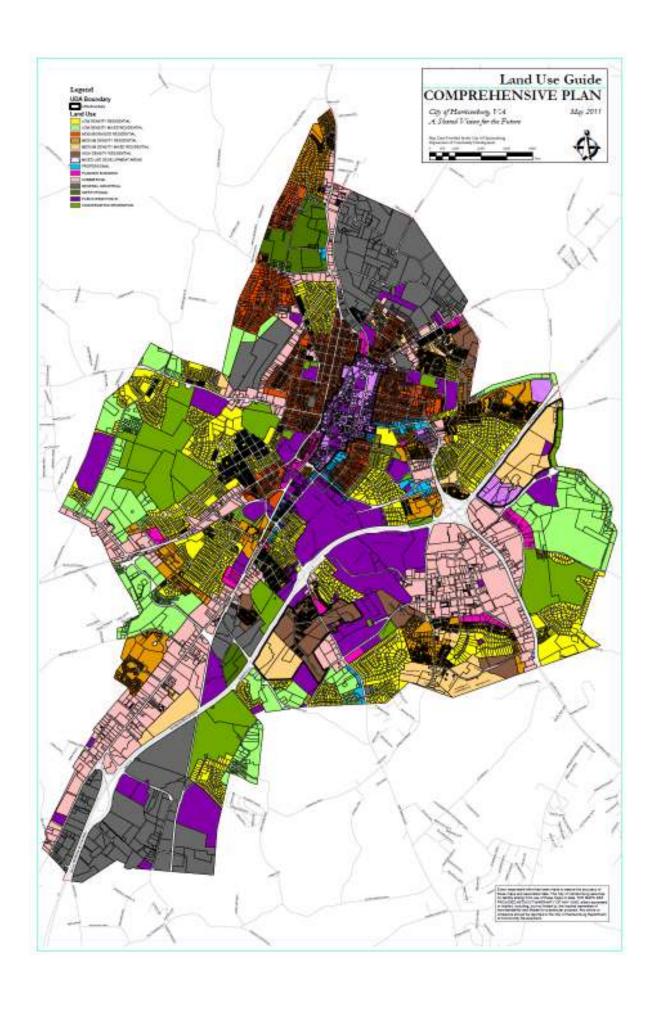
- Objective 1.3 To create positive images of the City through landscaping and design improvements at the City's gateways and along major travel corridors.
  - Strategy 1.3.1 To prepare an evaluation of the visual quality and entry experience at each gateway shown on the Plan Framework Map and plan for appropriate improvements. Such improvements could include updated entry signage, landscape plantings, screening of unsightly views, and new development and redevelopment recommendations. Improved signage from gateways to major destinations should be considered as part of gateway plans.
  - Strategy 1.3.2 To conduct a special study of each of the corridor enhancement areas shown on the Plan Framework Map to address such issues as:
    - Land use and design quality
    - Streetscape improvements
    - Vehicle, pedestrian and bicycle circulation
    - Access management
    - Development, redevelopment and reuse opportunities
    - Conservation of special features
    - Improvements to utilities and public facilities
    - Signage
- Objective 1.4 To encourage mixed use development where different types of properties enhance and complement one another.
  - Strategy 1.4.1 To promote the development of mixed residential and mixed use areas as recommended on the Plan Framework Map, Land Use Guide and in the text of this plan.
  - Strategy 1.4.2 To develop a zoning approach to require, permit and/or provide incentives for the development of low density and medium density mixed residential neighborhoods as identified on the Plan Framework Map and Land Use Guide. Ordinance provisions would allow innovative residential building types and permit creative subdivision design solutions that promote neighborhood cohesiveness, walkability, connected street grids, community green spaces, and protection of historic and environmental resources.
  - Strategy 1.4.3 To develop a zoning approach to require, permit and/or provide incentives for the development of live-work neighborhoods with characteristics similar to the mixed residential neighborhoods but with compatible residential-scale office uses permitted as well.
  - Strategy 1.4.4 To develop a zoning approach to require, permit and/or provide incentives for traditional neighborhood development as described in the plan text.
- Objective 1.5 To ensure that new development of residential, commercial and industrial properties will be compatible with surrounding properties.
  - Strategy 1.5.1 To revise the zoning ordinance to require landscape buffers, screening, or alternative architectural solutions to provide transitions between potentially incompatible land uses.

- Objective 1.6 To rezone properties into conformity with the new comprehensive plan, in order to reduce incompatibility.
  - Strategy 1.6.1 To remove the potential for development or redevelopment of uses incompatible with their surroundings by initiating appropriate rezonings or text amendments as indicated by the Land Use Guide.
- Objective 1.7 To encourage and promote aesthetically pleasing high-end residential communities.
  - Strategy 1.7.1 To include in the City's land use codes and manuals design provisions and performance standards to improve the design quality of all residential development. Such provisions and standards may address:
    - Building setback and orientation standards that enhance social interaction.
    - Street system design that promotes connectivity and addresses traffic calming measures to reduce speeding.
    - Requirements for sidewalks and trails that facilitate and encourage walking and bicycle use.
    - Streetscape planting requirements.
    - Standards for the placement of parking areas and garages so as to avoid streetscapes dominated by parking lots and garage doors.
    - Size, quality, design, character, and facilities in preserved open spaces.
  - Strategy 1.7.2 To require, permit and/or provide incentives for "open space" or "cluster" development so as to preserve green space within new subdivisions.
- Goal 2. To promote novel patterns of development like those developed early in the City's history vital, well planned and well integrated mixed-housing and mixed-use urban areas of distinct character.
  - Objective 2.1 To designate recommended mixed housing and mixed use areas.
    - Strategy 2.1.1 To promote the development of mixed residential and mixed use areas as recommended on the Plan Framework Map, Land Use Guide and in the text of this plan.
  - Objective 2.2 To adopt zoning, subdivision and other measures to promote the development of mixed-housing and mixed-use urban areas of distinct character.
    - Strategy 2.2.1 To develop a zoning approach to require, permit and/or provide incentives for the development of low density and medium density mixed residential neighborhoods as identified on the Plan Framework Map and Land Use Guide. Ordinance provisions would allow innovative residential building types and permit creative subdivision design solutions that promote neighborhood cohesiveness, walkability, connected street grids, community green spaces, and protection of historic and environmental resources.
    - Strategy 2.2.2 To develop a zoning approach to require, permit and/or provide incentives for the development of live-work neighborhoods with characteristics similar

to the mixed residential neighborhoods but with compatible residential-scale office uses permitted as well.

Strategy 2.2.3 To develop a zoning approach to require, permit and/or provide incentives for traditional neighborhood development as described in the plan text.





# Chapter 6 Neighborhoods & Housing

### Introduction

A major goal of this plan is to improve the livability of the City's neighborhoods. For existing neighborhoods, this may be achieved through conservation, stabilization and revitalization activities. For new neighborhoods, the City plans to provide new zoning and subdivision mechanisms to encourage attractive and vital new residential areas to be constructed.

# **Background**

### Neighborhoods

Citizens are proud of their neighborhoods and protective of them. Concerns frequently cited about neighborhoods include the appearance of neighborhoods, the low level of upkeep of some of the houses, the conversion of single family homes into rental apartments, and the turning of lawns into parking lots. It is sometimes felt that the conversion of homes into student apartments has acted as a destabilizing force, reducing property values and the livability of neighborhoods for families.

In some areas there are instances where zoning has allowed incompatible industrial or commercial uses within or adjacent to residential areas; adversely affecting the livability of the neighborhood. Traffic impacts of large new developments, such as shopping centers and apartment complexes can also affect neighborhoods.

This plan recommends that citizens be involved in efforts to conserve, stabilize, and revitalize their neighborhoods. The plan also recommends that detailed neighborhood plans be prepared to address the issues brought up by citizens and that residents of the neighborhoods be engaged to help prepare these plans.

## Housing

In the past, it has been felt that large complexes of single residential types were not the best types of neighborhoods. New neighborhoods offering a mix of housing types are a better use of land to a number of citizens. Included within this plan's recommendations are revisions to the Zoning Ordinance and Zoning Map to allow a wider variety of single family residential housing types, to restrict the development of more large multifamily housing complexes, and to provide a more balanced range of housing choices.

The characteristics of Harrisonburg's housing stock, such as the mix of housing types, tenure, vacancy rates, age and condition, provide insight into the housing opportunities available within the City, as well as the City's general economic vitality. This information has been gathered from the U.S. Census Bureau, the Harrisonburg Redevelopment and Housing Authority (HRHA), and from City building permit data.

**Housing Supply**: According to the U.S. Census Bureau, the City's housing stock totaled 13,689 units in the year 2000 and by estimates provided by the 2007 – 2009 American Community Survey (ACS) has grown to 16,067 units. An estimate based on City building permit data, however, brings the total housing units to approximately 17,538 as of the end of 2010. Table 6-1 presents trends in the mix of housing types within the City's housing stock since 1990. Single-family detached units currently comprise approximately 33 percent of the City's housing stock, single-family attached units (townhouses and duplexes) 25 percent, multi-family units about 40 percent, and mobile homes and

other miscellaneous units make up the remaining approximately two percent. This shows an increasing shift away from single family detached units towards single family attached units.

Since 2000, there has been a decrease in the percent of the housing stock that is single family detached, and of the 3,849 new housing units permitted, 573 of them, or about 15 percent, were for single family detached dwellings; about 54 percent for duplexes and townhouses and roughly 32 percent for multifamily. Years 2007 and 2008 saw a surge in multi-family units permitted with 410 and 468 units respectively, which were the highest number of multi-family units permitted in a single year since 1989. Both the 1989 and recent surges were in response to plans for increased enrollment at James Madison University (JMU).

Table 6-1: Trends in Housing Mix, 1990-2009, Harrisonburg

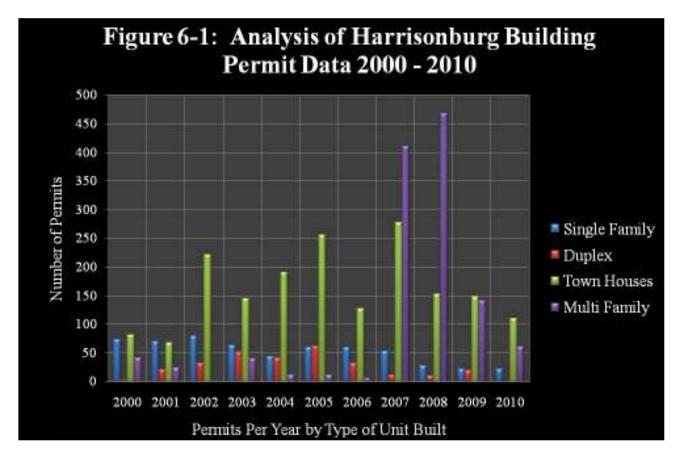
	19	90	20	00	201	0^
Housing Unit Type	Number	Percent	Number	Percent	Number^	Percent^
Single- Family Detached	4,599	42.2%	5,203	38.0%	5,776	32.9%
Duplex and Townhouse	1,700	15.6%	2,382	17.4%	4,442	25.3%
Multi-Family	4,200	38.5%	5,792	42.3%	7,008	40.0%
Mobile Homes & Other*	401	3.7	312	2.3	312	1.8%
TOTAL	10,900	100%	13,689	100%	17,538	100%

Source: 1990-2000 Censuses of Population & Housing; 2008 estimate from City Building Permit Data

\* Includes 9 "Other living quarters", such as an RV.

^Based upon City of Harrisonburg building permit data.

Figure 6-1 illustrates building permit data for the last 11 years. Single family construction has decreased during this time period, while townhouses increased from 2002 to 2007 and multi-family units had a boom in 2007 and 2008.



Occupancy and Tenure: Table 6-2 provides 2000 Census data and 2007-2009 ACS data on the occupancy rates and tenure (units owned or rented) of the City's housing stock. The level of detail available for the vacant housing units available in the 2000 Census is not available for 2007-2009. Of the 13,689 total housing units reported by the Census within Harrisonburg as of April 2000, only about four percent were vacant. There is a trend toward a greater percentage of housing in rental vs. owner-occupied units within the City, with rental units increasing from 54.7 percent of all housing in 1990 to 61 percent and 63.2 percent in 2000 and 2007 – 2009 respectively.

Table 6-2: Housing Occupancy and Tenure Harrisonburg, 2000 and 2007-2009

	2000		2007-2009		2000-2009 Percent Change in Numbers of Units
SUBJECT	#	%	#	<b>%</b>	
OCCUPANCY STATUS					
<b>Total Housing Units</b>	13,689	100%	16,067	100%	17.4%
Occupied housing units	13,133	95.9%	14,487	90.2 %	10.3%
Vacant housing units	556	4.1%	1,580	9.8%	184%
	1				
TENURE					
Occupied Housing Units	13,133	100%	14,487	100%	10.3%
Owner-occupied units	5,125	39%	5,321	36.7%	3.8%
Renter-occupied units	8,008	61%	9,166	63.2%	14.5%
VACANCY STATUS					
Vacant Housing Units	556	100%	1,580	100%	184%
For rent	274	49.3%	N/A	N/A	N/A
For sale only	86	15.5%	N/A	N/A	N/A
Rented or sold, not occupied	75	13.5%	N/A	N/A	N/A
For seasonal, recreational or occasional use	37	6.7%	N/A	N/A	N/A
For migrant workers	1	0.2%	N/A	N/A	N/A
Other vacant	83	14.9%	N/A	N/A	N/A
VACANCY RATES		%		0/0	Change in Percentage
Homeowner vacancy rate		1.7%		1.7%	0%
Rental vacancy rate		3.3%		3.4%	0.1%

Source: US Census Bureau, 2000 Census and 2007-2009 American Community Survey.

There are two vacancy rates shown in Table 6-2. The homeowner vacancy rate is the proportion of vacant units for sale to the total homeowner inventory. It is determined by dividing the number of vacant for-sale units by the sum of the City's owner-occupied units and vacant for-sale units. The rental vacancy rate is the proportion of vacant rental units to the total rental housing inventory. It is found by dividing the number of vacant units for rent by the sum of the City's renter-occupied units and the number of vacant units for rent.

**Student Housing**: The impact of JMU and Eastern Mennonite University (EMU) student housing demands must be considered in any Harrisonburg housing study. As of the 2010-2011 academic year, JMU housed about 6,100 students in on campus residence halls, which is 35 percent of the on campus full time undergraduates. This left approximately 11,500 students to find off campus housing. In the

fall of 2010, EMU housed approximately 50 percent of their 1,289 enrolled students. (EMU had a fall 2010 total enrollment of 1,537 students, which includes 248 students enrolled in their EMU at Lancaster, Pennsylvania satellite campus.)

It was previously mentioned that the numbers of permits issued for multi-family units in 2007 and 2008 were the highest since 1989. The number of townhouse units permitted was 278 in 2007 and 153 in 2008. Many townhouse units constructed are marketed almost exclusively to students, containing as many as 4 bedrooms and 4 bathrooms per unit. This increase in student rentals was largely in response to the State Council of Higher Education in Virginia's release of a projected enrollment increase at JMU of 3,800 "on campus" students between the fall of 2006 and the fall of 2013. With the number of student housing units recently constructed and under construction, there should be no problem housing those that desire off campus housing. In fact, there will be some surpluses in student housing until enrollment increases catch up with the additional housing. Furthermore, the Harrisonburg Redevelopment and Housing Authority's 2005 Analysis cited that "since the early 2000s, apartments catering to students have also turned to other markets, such as the emergent immigrant population who can utilize the large numbers of bedrooms in student apartments."

**Housing Value and Housing Costs**: Housing costs and housing values affect who can afford to live in a community; those same variables can also impact the economic health of the community. Housing costs and values also reflect the relative supply of housing and can be an indication of the desirability of the community as a place to live.

As can be seen from Table 6-3, the median value of an owner-occupied house in Harrisonburg is the second highest of all area jurisdictions listed. The value of the City's housing however, has not grown as rapidly as the value of housing in other area jurisdictions since 2000.

Table 6-3: Median Value of Owner-Occupied Housing Harrisonburg and Area Jurisdictions 1990 through 2009

Locality	1990	2000	2009	Percent Change 1990-2000	Percent Change 2000-2009
Harrisonburg	\$89,326	\$122,700	\$222,000	37.4%	80.9%
Charlottesville	\$85,000	\$117,800	\$288,100	38.6%	144.6%
Staunton	\$62,600	\$87,500	\$165,700	39.8%	89.4%
Waynesboro	\$67,600	\$89,300	\$172,000	32.1%	92.6%
<b>Augusta County</b>	\$70,200	\$110,900	\$188,200	58.0%	69.7%
<b>Rockingham County</b>	\$71,800	\$107,700	\$199,900	50.0%	85.6%

Source: 2004 Comprehensive Plan, 2007-2009 American Community Survey, US Census Bureau.

This relative low rate of increase in value is probably due in large part to the number of attached housing units permitted since 2000. Based on the conclusions of a 2005 HRHA housing analysis this is attributable primarily to the increases in the number of attached housing units constructed and to the trend to develop higher priced single family housing in Rockingham County. This analysis, like its 2000 predecessor, cites a primary reason for this as a lack of attractive, appropriately zoned land in the City and the availability of more easily developed and affordable tracts within Rockingham County. Although not documented, higher development costs within the City were also noted as a contributing factor in this trend.

**Existing Affordable Housing Programs**: While there is a desire to increase the availability of highend housing within the City, there still exists a need for affordable owner-occupied housing units. Harrisonburg is fortunate to have an active and successful redevelopment and housing authority in the HRHA, which has been addressing the affordable housing needs of City residents since 1955. One of the principal housing goals of HRHA during the coming years is to focus on increasing homeownership opportunities for low- and moderate-income City residents.

The authority's Local Homeownership Development Loan Program lends construction funds to non-profit organizations such as Hope Community Builders to build affordable homes to sell to moderate-income families. The authority has committed \$100,000 for this program each fiscal year since 1992. Down payment assistance to qualifying purchasers in this program is provided through forgivable loans from its Residential Mortgage Loan Program.

The authority's homeownership initiatives received a major boost in 2002 with the creation of the Valley Housing Alliance (VHA), which is a partnership of existing community housing organizations, including HRHA, Hope Community Builders, Rebuild Harrisonburg/Rockingham County, and Central Virginia Habitat for Humanity. The goal of the alliance is to collaborate on programs that promote affordable housing and diminish substandard housing conditions in the Harrisonburg/Rockingham area.

Rental Housing Costs: Rental rates increased substantially between 2000 and 2009. The Census Bureau collects data on gross rent, which is the monthly rental rate plus the average monthly cost of utilities. According to the ACS, the median gross rent increased from \$480 per month in 2000 to \$780 per month in 2007 – 2009. These same data sources also show a steady increase in the percentage of households that paid more than 35 percent of their monthly household income for rent from approximately 19 percent of households in 1990 to almost 34 percent in 2000 and just over 50 percent in 2007-2009. Keep in mind however, that these figures do include the large number of student households in the City, where parents are paying many of the rents. The HRHA 2005 Housing Analysis estimates that 72 percent of all student renter households and 53 percent of all non-student renter households had incomes under \$30,000. Although this study estimates the number of student vs. non-student renter households, there is no information provided on the rents of non-student households.

**Subsidized Rental Housing**: The Harrisonburg Redevelopment and Housing Authority Executive Director reported that the City has 1,285 subsidized apartment units, 100 units of project based housing, 843 Housing Choice Vouchers (Section 8 program), and 328 affordable apartment units built under the Federal Low Income Housing Tax Credit program. According to the HRHA Executive Director, as of February 1, 2011, there are 567 persons on the waiting list for the Housing Choice Voucher Program Section 8 housing units, 38 persons waiting for the elderly/disabled Lineweaver Annex, 28 persons for the elderly/disable JR Polly Lineweaver complex, and 219 persons for the project based housing at Franklin Heights. Therefore, the need for affordable rental housing still exists within the area.

**Summary of Housing Issues**: There are a number of housing issues facing the City in the coming years. These include the continuing need for affordable rental housing, the need to improve the balance of owner- vs. renter-occupied housing and the percentage of higher end vs. subsidized housing, and a lack of suitable land for single-family detached housing development within the City.

Affordable Housing – Housing is generally defined as affordable when the occupant is paying no more than 30 percent of his or her income for gross housing costs, including utilities. When the term affordable housing is used however, it usually refers to housing affordable to households falling in the low to moderate income range, with incomes at or below 80 percent of the locality's median household income. The 2005 HRHA Housing Analysis shows ethnic households make up a disproportionately large portion (54 percent) of the lower-moderate income group (in the income range between \$22,750 and \$30,500). With the growth in this segment of the population, combined with the existing waiting lists for all of HRHA's affordable housing continuing, the need for affordable rental housing persists.

<u>Homeownership Rate</u> – As noted, rental housing units have increasingly dominated the City's housing stock during the past several decades. The recent growth in multi-family housing aimed mainly at off campus students, the decrease in single family detached permits issued and the fact that many of the single family attached housing units being developed are intended for use as rental properties, show that this disparity between owner and renter occupancy is still in a growth mode.

Lack of Higher Priced Housing Opportunities – Both the 2000 and 2005 HRHA studies confirmed that the majority of higher priced homes are being constructed in Rockingham County. The studies cited this was due in part to a lack of suitable single-family residential land in the City and higher development costs within the City. Remaining R-1 zoned land was reported to have topographic and limestone problems and to be on the west side of Harrisonburg, while the demand for single-family units was reported to be primarily east of I-81. Although not identified as a legally supportable strategy, the study recommended the City consider providing incentives in return for development of higher priced homes with on site amenities, and encourage the development of innovative techniques for active adult housing in the higher price range. This would provide the City with a unique marketing niche, rather than attempting to compete with the County for the larger-lot single-family home market. Marketing to empty nesters and retirees has the added advantage of attracting fewer school-aged children per household than a typical single-family home, which can further be viewed positively as these households would not place additional strain on the City's education system.

# Neighborhoods & Housing Goals, Objectives and Strategies

- Goal 3. To strengthen existing neighborhoods and promote the development of new neighborhoods that are quiet, safe, beautiful, walkable, enhance social interaction, and offer a balanced range of housing choices.
  - Objective 3.1 To work with neighborhoods to identify neighborhood strengths, weaknesses and needs and to develop plans of action for neighborhood improvement.
    - Strategy 3.1.1 To develop a priority list of neighborhoods, for which neighborhood improvement plans will be developed, focusing first on the neighborhood conservation areas identified on the Plan Framework Map.
    - Strategy 3.1.2 To review the priority list annually as neighborhood plans are completed and as issues and priorities change.
    - Strategy 3.1.3 To develop and implement a planning approach and process that assures involvement of residents and landowners in preparing the plans for their neighborhoods (e.g., neighborhood planning task force, resident/owner input sessions, neighborhood design charrettes, etc.)

- Strategy 3.1.4 To assist neighborhoods in setting up appropriate neighborhood representative organizations to assist the City and other partners in implementing neighborhood plans.
- Strategy 3.1.5 To involve all appropriate City departments and programs in the neighborhood planning process to ensure a coordinated planning and implementation effort.
- Strategy 3.1.6 To partner with HRHA to evaluate options available to deal with and prevent blighted properties.
- Objective 3.2 To limit the conversion of single family houses into duplexes and apartments in residential neighborhoods.
  - Strategy 3.2.1 To review the City's ordinances for any further revisions needed to prevent or limit conversions.
  - Strategy 3.2.2 To develop a set of policies to limit rezonings and special use permits for conversions of single family homes into duplexes and apartments. Such policies should contain criteria regarding the locations and neighborhood and building conditions that warrant permission of conversion as well as neighborhood plan recommendations regarding conversions to rental housing.
  - Strategy 3.2.3 To train City staff to be vigilant in the approval of kitchen and bath additions that might lead to apartment conversions and to obtain affidavits from homeowners making such additions as to their intentions.
  - Strategy 3.2.4 To consider implementing a rental housing registration and/or inspection program to ensure compliance with the Building Code and promote safe, decent and sanitary housing. Sufficient funding will need to be secured to establish this new program.
- Objective 3.3 To promote well designed new neighborhoods in the furtherance of this goal.
  - Strategy 3.3.1 To develop a zoning approach to require, permit and/or create incentives for the development of new residential neighborhoods that contain a mix of housing types, in areas shown on the plan framework map.
  - Strategy 3.3.2 To include in the City's land use codes and manuals design provisions and performance standards to improve the design quality of all residential development. Such provisions and standards may address:
    - Building setback and orientation standards that enhance social interaction.
    - Street system design that promotes connectivity and addresses traffic calming measures to reduce speeding.
    - Requirements for sidewalks and trails that facilitate and encourage walking and bicycle use.
    - Streetscape planting requirements.
    - Standards for the placement of parking areas and garages so as to avoid streetscapes dominated by parking lots and garage doors.
    - Size, quality, design, character, and facilities for preserved open spaces.
  - Strategy 3.3.3 To require, permit and/or provide incentives for "open space" or "cluster" development so as to preserve green space within new subdivisions.

- Objective 3.4 To develop approaches to increase the percentage of single family detached housing units to a minimum of 45 percent of the total number of housing units in the City.
  - Strategy 3.4.1 To approve new high density multi-family development for only select areas, as recommended in the Land Use Guide.
  - Strategy 3.4.2 To review and amend the Zoning Ordinance so as to increase opportunities for single family residential development affordable to households in a range of incomes. Strategy 3.4.1 and Strategy 3.4.2 might be achieved by:
    - Reviewing and revising the residential zones to permit small lot and innovative forms of single family residential development as appropriate.
- Objective 3.5 To consider and seek to mitigate the potential impacts of rezoning and public investment decisions on neighborhoods.
  - Strategy 3.5.1 To require applicants for rezonings and special use permits to prepare and submit with their applications an impact analysis addressing such issues as: projected increase in population and demand for school facilities and other public facilities, impacts on vehicular, pedestrian and bicycle traffic and circulation, water and sewer service needs, storm water run-off quantity and quality impacts, visual impacts, impacts to historic and environmental resources, etc. The analysis should address proposed measures to mitigate impacts. The level of analysis required should reflect the size and potential impact of the project.
  - Strategy 3.5.2 To prepare and submit to the Planning Commission and City Council similar impact analyses for public investment projects, such as roads, public buildings and other public facilities.
  - Strategy 3.5.3 To work with VDOT to reduce and mitigate adverse impacts of the future widening of I-81 on neighborhoods, businesses, and other areas along the corridor.

Goal 4. To meet the current and future needs of residents for affordable housing.

- Objective 4.1 To study housing affordability in the region.
  - Strategy 4.1.1 To work with the Harrisonburg Redevelopment and Housing Authority and the Harrisonburg-Rockingham Continuum of Care to study and define housing affordability at the full range of income levels in the City and region.
  - Strategy 4.1.2 To work with Rockingham County to determine and obtain agreement on each locality's fair share of affordable housing within the City-County region and to develop goals for the provision of affordable housing.
- Objective 4.2 To partner with the Harrisonburg Redevelopment and Housing Authority, the Harrisonburg-Rockingham Continuum of Care, and other community housing providers (serving the elderly, disabled, homeless, low/moderate income

families, victims of violence, etc.) to address community housing needs throughout the region.

- Strategy 4.2.1 To support the Harrisonburg-Rockingham Continuum of Care to monitor and develop programs to meet City-County affordable housing goals.
- Strategy 4.2.2 To include as Harrisonburg-Rockingham Continuum of Care members all significant players in the regional housing market, such as, the City of Harrisonburg, Rockingham County, the Harrisonburg Redevelopment and Housing Authority, the Valley Housing Alliance, non-profit community housing providers (serving the elderly, disabled, homeless, low/moderate income families, victims of violence, etc.), and private sector housing developers and providers, etc., as well as other interested parties, including Harrisonburg City Public Schools and Rockingham County Public Schools.
- Strategy 4.2.3 To assist in the implementation of Harrisonburg-Rockingham Continuum of Care affordable housing programs.
- Strategy 4.2.4 To consider implementing a rental housing inspection and/or registration program to ensure that such housing is decent as well as affordable and to enforce occupancy restrictions and maintain records on approved rental units. Sufficient funding will need to be secured to establish this new program.
- Objective 4.3 To promote home ownership so as to increase the proportion of owner-occupied units in the City.
  - Strategy 4.3.1 To support expansion of the Family Self-Sufficiency and Lease to Homeownership programs of the Harrisonburg Redevelopment and Housing Authority and other home ownership programs that might be developed by HRHA.
  - Strategy 4.3.2 To work with private developers, non-profit community housing providers and rental housing providers to offer home-ownership opportunities for first-time low-moderate income homeowners (e.g., through HOME, Hope VI and other available housing programs).
- Objective 4.4 To identify areas of the City for affordable housing while promoting mixed income housing neighborhoods.
  - Strategy 4.4.1 To designate the entire City as an area within the region currently providing housing affordable to a wide range of income levels.
  - Strategy 4.4.2 To designate mixed use areas on the Land Use Guide as potential locations for new housing affordable to a wide range of income levels, including low to moderate income households.
- Objective 4.5 To support the development and adoption of a Ten Year Plan to end chronic homelessness in the City of Harrisonburg, as part of the goal to end chronic homelessness and help to move families and individuals into permanent housing.

- Strategy 4.5.1 To establish a taskforce to research and develop a Ten Year Plan document for the City of Harrisonburg.

  Strategy 4.5.2 To support the adoption of an action plan for the City.

  To create an action plan to implement a Ten Year Plan for the City of Harrisonburg.

  Strategy 4.5.4 To support the implementation of the Plan.
- Objective 4.6 To promote Fair Housing policies in the City of Harrisonburg.
  - Strategy 4.6.1 To establish a taskforce comprised of governmental, non profit and business entities to identify local fair housing barriers, solutions, and the development of an action plan.
  - Strategy 4.6.2 To support the implementation of an action plan to promote Fair Housing policies within the City of Harrisonburg.

# **Chapter 7** Education

### Introduction

Harrisonburg is a city of education with two major universities, an excellent public school system, and highly regarded private schools. Many citizens of the City are affiliated with the schools, either working there or attending class, making school life a very important aspect of city life. The City is dedicated to making its public schools the best that they can be. Cooperation between City Council and the School Board is essential for meeting this broad goal. Cooperation between the City and the universities is also sought in efforts to meet many of the goals, objectives and strategies of this plan, from those supporting adult education to promotion of the arts (as discussed in Chapter 8) to economic development (as discussed in Chapter 13). The City wishes to continue its positive relationships with James Madison University and Eastern Mennonite University.

## **Background**

Schools

The City's Public Schools have adopted both vision and mission statements to guide their work.

Vision Statement: "Motivate, Educate, and Celebrate: Learning together for a better future."

Mission Statement: "Our mission is to prepare every student to succeed and to contribute to a better world. We will strive to do this in an academically-challenging, safe, and nurturing environment where all students, parents, and community members are active participants."

The schools strive to provide a quality education to every student who comes to them.

**School Facilities**: Approximately 11 percent of the City's total population is enrolled in the public school system. While school enrollment has decreased slightly in the last two years, the school division grew substantially during the previous decade primarily due to immigration. That growth resulted in the need for additional classroom space. In 2008, two new schools, Skyline Middle School and Smithland Elementary School, were opened.

The City's public school system currently operates eight public school facilities. The physical capacity of school buildings is a dynamic measurement, due in part to the changing standards that result from legislative requirements to provide additional services for special populations. The original "intended" or "design" capacities are larger than the current "actual" capacities, due to these changing requirements. Table 7-1 shows a summary of the physical plants, and shows the capacities of the current school facilities.

**Table 7-1: City of Harrisonburg School Facilities** 

School	Date of Original Construction	Acreage
Harrisonburg High School	2005	63
Thomas Harrison Middle School	1989	34
Skyline Middle School (campus shared with SMES)	2008	Part of a 65 acre shared campus.
Keister Elementary School	1955	17
Smithland Elementary School (campus shared with SKMS)	2008	Part of a 65 acre shared campus.
Spotswood Elementary School	1960	16
Stone Spring Elementary School	1993	23
Waterman Elementary School	1911	9

Source: Harrisonburg City Public Schools, Five Year Capital Improvement Plan, 2009.

Table 7-2: City of Harrisonburg School Capacities

Table 7-2: City of Harrisonburg School Capacities						
School	2008 Totals	2008 Building Total	Actual Capacity*	ntended Capacity**		
School	Totals	rotar	capacity	Сарасну		
Harrisonburg High School	1259	1276	1350	1550		
Thomas Harrison Middle School	742	754	915	925		
Skyline Middle School	489	493	800	876		
Keister ES	390	431	424	492		
Spotswood ES	335	374	425	493		
Stone Spring ES	302	352	488	492		
Smithland ES	399	433	536	600		
Waterman ES	345	385	447	451		
Totals	4,261	4,498	5,385	5,879		

Source: Harrisonburg City Public Schools.

With the opening of a new middle school and elementary school in the Fall of 2008, and the grade reconfiguration (K-4 at elementary schools and 5-8 at middle schools), the school division has addressed the overcrowding issues. The majority of the mobile classrooms that were used to address the gaps in available capacity have been removed. While no additional construction of schools is anticipated to be needed for several years, the next likely school project will be adding classroom space at Harrisonburg High School. This addition will not be needed for 5 to 10 years.

**School Services:** The school division offers an extremely wide range of services to the City's children in order to provide a quality education and meet individual student needs. Pre-school classes at the elementary schools through college credit courses offered in our high school are available to students.

<sup>\*</sup> Number of students the facility can accommodate while providing space for mandated or specialized programming.

<sup>\*\*</sup> Number of students the facility would accommodate w/o mandated or specialized programming, as originally designed.

Special Education classes and alternative education programs are also available for students who need them. Of the 4,261 total students in the system, 1,747 (41.0 percent) require English as a Second Language (ESL) services. (Note: The term English as a Second Language (ESL) and Limited English Proficiency (LEP) are analogous terms and are used interchangeably.) This is an extraordinarily high percentage compared to other jurisdictions in the Commonwealth. A relatively small proportion of the ESL student population has English language proficiency; most need extra help, which therefore requires additional staffing resources. Unless there are dramatic changes in the economic characteristics of the region, the City school system should expect the ESL population to continue to rise.

In recent years, federal and state legislative requirements have increased the challenges to the system. The school division annually reports achievement results for all students as a large group and the achievement of students is also reported in the following defined categories: students with disabilities, LEP students, economically disadvantaged students, white students, black students, and Hispanic students.

The City school system currently cooperates with the County school system through a joint consortium for purchasing (food supplies, etc.) and jointly operates the special education program for "low-incident" (low rate of occurrence) special populations in which shared services allows economies of scale for both systems. Massanutten Technical Center, which offers technical and vocational training and classes for high school and adult students, is also operated jointly by the City and County school systems.

**Future Needs and Planned Facilities:** As indicated in Table 7-2, the total current enrollment of the system is approximately 4,261 students. This reflects a decrease in our overall enrollment by 58 students from the 2007-08 school year. These trends are shown in Table 7-3. The School Board has set as a priority the construction or acquisition of a new school board office. Currently, the administrative staff is spread over two different facilities, which impacts efficiency.

**Table 7-3: City of Harrisonburg School Enrollment Trends** 

<u> </u>		0		
Year	2005	2006	2007	2008
Number of Students	4,274	4,419	4,319	4,261
% Increase or Decrease from previous year	+3.0%	+3.4%	-2.3%	-1.3%

Source: Harrisonburg City Public Schools.

Table 7-4 shows the school system's forecast for future enrollments. The school system currently is planning for a future annual growth rate of 1.0 percent in the public school population based upon recent trends. The 1.0 percent growth factor is revisited annually. The following chart indicates that 236 total students will be added over a five year period.

**Table 7-4: City of Harrisonburg School Enrollment Forecasts** 

Year	Enrollment	Increase/Decrease	Percentage
2010-2011	4360	+45 students	1.04%
2011-2012	4405	+45 students	1.04%
2012-2013	4451	+46 students	1.04%
2013-2014	4496	+46 students	1.04%

Source: Harrisonburg City Public Schools.

**Service and Facility Standards**: For instructional staffing, the system uses class size targets and state standards for special education. Maximum class size targets are:

Grades K-3: 18, 19, 20 and 21 students per teacher, respectively

Grades 4-5: 22 students per teacher

Grades 6-8: 23 students per teacher (not formally adopted)
Grades 9-12: 24 students per teacher (not formally adopted)

However, school funding may alter these targets, resulting in slightly higher class sizes.

For school sites, the system uses the following standards:

Elementary School: 20 acres (gross)
Middle School: 40 acres (gross)
High School: 60 acres (gross)

## **Education Goal, Objectives and Strategies**

Goal 5. To provide a wide and equitably distributed range of educational opportunities for all ages.

- Objective 5.1 To work with the School Board to assure the quality of public education and excellent educational outcomes for all enrolled children.
- Objective 5.2 To continue to work with the School Board to monitor enrollment trends and projections to ensure quality educational facilities.
  - Strategy 5.2.1 To work collaboratively with the School Board on the implementation of school facility improvements.
  - Strategy 5.2.2 To assist the School Board in obtaining needed additional administrative space.
  - Strategy 5.2.3 To coordinate City staff and school staff annual estimates and forecasts of population and school enrollment.
  - Strategy 5.2.4 To hold annual meetings between the City Council and the School Board to review population growth and enrollment trends and discuss current and future school needs.
- Objective 5.3 To work with the School Board to encourage needed neighborhood elementary schools in underserved areas of the City.
  - Strategy 5.3.1 To locate an elementary school in each quadrant of the City as the need arises.

- Strategy 5.3.2 To design all new schools to fit into their neighborhood. Consideration should be given to making them easily accessible by pedestrians and bicyclists, not dominated by parking lots, attractive, residential in scale and setback, well-landscaped, and with lighting designed not to intrude into the neighborhood.
- Objective 5.4 To promote educational programs for workforce development, training, retraining and life-long learning.
  - Strategy 5.4.1 To ensure close communication between the Harrisonburg Department of Economic Development, Blue Ridge Community College, Massanutten Technical Center, Dayton Learning Center, and existing and prospective businesses regarding educational needs of the workforce.
  - Strategy 5.4.2 To support Blue Ridge Community College in efforts to obtain grants for workforce development programs.
  - Strategy 5.4.3 To encourage James Madison University, Eastern Mennonite University, Blue Ridge Community College, and Bridgewater College to make degree and enrichment courses available to City residents.

# Chapter 8 Arts, Culture, & Historic Resources

### Introduction

With a diverse population, two universities, and a significant past, the City of Harrisonburg has many artistic, cultural, and historic resources to make use of. Generally, the City's cultural enrichment is provided by the City's educational institutions, arts organizations, and the library system. The City has many quality historic resources recognized particularly in the downtown and in close-by neighborhoods, which provides much of the City's unique architectural character. The City has not made historic preservation a major focus, but interest in preservation continues to grow. This plan supports expansion of the City's arts, cultural, and historic offerings in an effort to enhance the quality of life for its citizens.

### The Arts & Cultural Offerings

The City offers a number of special events and venues for the arts and other cultural pursuits to support the community's demographic characteristics and lifestyle choices. In the coming years, these efforts will create new opportunities for capturing the region's emerging "creative class."

This creative class is driven, in part, by higher education and an influx of important technology-based businesses, which include: James Madison University, Eastern Mennonite University, Blue Ridge Community College, Bridgewater College, Rosetta Stone, and Harrisonburg's Stanford Research Institute International initiative, all of which continue to shape the regional economy and lifestyles.

In 2000, the City helped establish the Arts Council of the Valley (ACV), a nonprofit cultural organization that was originally established to provide cultural and operational leadership for the 250-seat Court Square Theater. Over the years, the ACV has expanded its scope of programs and services, and now operates two downtown cultural venues: the historic Smith House with its Darrin-McHone Art Gallery and Court Square Theater.

In support of its mission, the Arts Council of the Valley: 1) produces and promotes quality visual and performing arts programs in the Harrisonburg/Rockingham area; 2) provides grants to support educational and community-based cultural initiatives; 3) cultivates and nurtures emerging arts organizations for limited periods (e.g., the Children's Museum, Valley 4<sup>th</sup>, and the Harrisonburg International Festival); and 4) participates in the revitalization of downtown Harrisonburg's Arts and Cultural district.

ACV's core operating funds are provided by grants from the City, Rockingham County, and the Commonwealth of Virginia. Each year, the ACV generates additional revenue through fundraising activities and other program-based sources.

In addition to the ACV and its two venues, the City boasts a number of cultural and historic attractions that are clustered in downtown's Arts and Cultural District, including the Virginia Quilt Museum, the Hardesty-Higgins House, Dance and Company, the Harrisonburg Children's Museum, OASIS Gallery, 150 Franklin Street Gallery, and Woodbine Cemetery.

JMU provides further opportunities for the study and exploration of the visual and performing arts. First and foremost, it is home to the recently opened Forbes Center for the Performing Arts, which should greatly enrich and enlighten the community. The Forbes Center has five performing venues including a 600-seat Concert Hall, a 196-seat Recital Hall, a 450-seat Mainstage Theatre, a 200-seat Earlynn J. Miller Dance Theatre, and a 150-seat Studio Theatre. JMU also has the Sawhill, artWorks,

and New Image Galleries, the Madison Art Collection, and the Institute for Visual Studies. JMU's Outdoor Sculpture Invitational features the work of nationally recognized sculptors on a rotating basis, which is open year round, and is located in front of Duke Hall.

EMU's Hartzler Library Art Gallery, the Hostetter Museum of Natural History, and Brackbill Planetarium round out the City's university-based cultural offerings.

Special interest cultural groups include The Playhouse, a nonprofit, volunteer-based community theater company, whose members perform three to four times a year at Court Square Theater, and the Shenandoah Valley Watercolor Society.

### Libraries

The Massanutten Regional Library (MRL) is a private, non-profit organization supported jointly by the City of Harrisonburg, the County of Rockingham, and the County of Page. The Library's mission statement is as follows:

Mission Statement: "The Massanutten Regional Library supports individual achievement and community enrichment through reading and life-long learning. The Library is a reliable and trusted source of information for its patrons and ensures a free and unbiased flow of ideas for the community."

Existing Facilities and Services: The Main Library is located at 174 South Main Street in downtown Harrisonburg. There are also eight branch libraries in Rockingham and Page counties. In addition, bookmobile service is provided to various sites in the City and the Counties. An increasingly important service and facility provision in libraries today is Internet access. The MRL measures Internet use by the number of customer/user sessions in each building. The number of sessions is on an upward trend.

Future Needs and Planned Facilities: While there are no current plans for capital improvements, within five years, the MRL will need to establish a branch on the east side of the City in light of the significant development in that part of the City. Capital maintenance will be the main focus of budgeting efforts over the next five years.

In the longer term—within 15 years—a major suburban branch facility [minimum 20,000 square feet] will be needed on the east side of the City, as well as major renovation to the Main Library building downtown. The Main Library is expected to continue in its downtown location due to the broad benefits that such a location provides both for library patrons as well as the community at large. The downtown location has a high level of user activity and also helps draw people to the downtown area on evenings and weekends. It serves as a downtown anchor and helps support local businesses.

### **Historic Resources**

### **Background**

The Plan Background Information Supplement from the 2004 Comprehensive Plan update contains a five-page brief history of the City as well as listings of the City's historic resources surveyed to date. The reader is directed to the supplement to find this more detailed information.

## Harrisonburg's Historic Assets and Previous Survey Efforts

Harrisonburg is fortunate that, while many historic resources have been lost, many historic properties still remain to tell the story of the City's rich history and to enrich the lives of its citizens. Beginning in 1958, these properties have been documented through historic sites surveys, providing the City with an invaluable inventory of its historic resources.

In 1958, the national HABS (Historic American Buildings Survey) inventory recorded the more prominent buildings in the City. Several additional buildings were added to the inventory by Isaac Terrall in 1972 during his survey of historic sites in Rockingham County. These early surveys included very little photographic documentation and lacked adequate written information for evaluating the properties. In addition, a number of these buildings have been destroyed over the years.

A more detailed survey of the downtown was undertaken in 1981 by Ann McCleary for the Virginia Historic Landmarks Commission (VHLC) (VHLC is now the Virginia Department of Historic Resources (VDHR)) at the request of the Harrisonburg Downtown Development Corporation. This survey recorded 296 buildings and sites in sufficient detail to allow recommendations for the preservation of the downtown's architecturally and historically significant properties.

The remainder of the City was surveyed by Ms. McCleary in 1983-84 as part of a Rockingham County survey, including numerous individual buildings in the newly annexed portion of Harrisonburg, mostly farmsteads. During the summer of 1984, Ms. McCleary also surveyed 25 buildings in the historic core of the JMU campus. Both of these surveys were compiled into a 1985 VHLC-published survey report entitled, "The Valley Regional Preservation Plan: Evaluation of Architectural, Historic, and Archaeological Resources in Harrisonburg, Virginia." The report noted that surveyed properties are concentrated largely in the downtown area and on the JMU campus, and recommended further survey work concentrating on the late 19<sup>th</sup> and early 20<sup>th</sup> century residential neighborhoods surrounding the downtown core including: High Street, East and West Market Street, Mason and Main Streets, Franklin and Newman Streets, the neighborhoods west of High Street, and on the north side of the downtown. Ms. McCleary also recommended that a future survey document significant older houses within the many modern subdivisions on the fringes of the older City.

At that time, the survey also listed four City properties on the Virginia Landmarks Register and National Register of Historic Places, including the Thomas Harrison House, the Anthony Hockman House, the Joshua Wilton House, and the County Courthouse. One property, the Morrison House, was noted as removed from the Register after its recent demolition.

Ms. McCleary indicated that the low number of registered buildings was not indicative of the City's architectural fabric and listed 11 additional downtown buildings as potentially eligible for the state and national registers, including Church of the Brethren, the Ney House, the old First National Bank, Rockingham County Office Building, Rockingham Motor Company, the Newman/Ruddle Building, the Isaac Atkins House, the L & S Diner, Crystal Service (no longer existing), the Chesapeake and Western Railroad Station, and the Craft (Higgins) House. The McCleary survey also included a list of architecturally significant buildings in the downtown study area meriting rehabilitation and/or preservation. The report recommended that the 52 buildings on this list be preserved in their settings to help retain their historic character. A thematic nomination to the register was recommended for railroad-related sites, including the historic warehouses along the tracks. In addition, JMU's original campus was recommended for the Virginia and National Registers as a historic district.

VDHR records show three individually surveyed historic buildings, besides the Morrison House, have been demolished since the 1985 survey report, including the Bassford House on North Liberty Street, the Jehu Bear House on South Main Street and the Henry Ott House at 254 Newman Avenue. It also noted the loss of the house of Reuben Harrison, Thomas Harrison's son, in 1982. In addition, many other structures were lost during the 1960's Urban Renewal Program, which cleared blighted areas all

over the country for redevelopment. One of the oldest houses in the City, the Henry Ott House (1858) was destroyed by fire in 1975.

In 1983, the Virginia Historic Landmarks Commission recommended that the Harrisonburg Post Office be registered. This imposing Georgian Revival building was constructed in 1939. The United States Postal Service never acted to pursue listing of this building on the historic registers.

The next effort at cataloguing the City's historic resources came in 1987, when Land & Community Associates completed a survey of the JMU campus as part of a State-Owned Properties Statewide Survey. This survey listed 36 sites in and around the original quadrangle, including the quadrangle itself. The survey notes that JMU provides the earliest examples of architect Charles Robinson's campus planning for Virginia's colleges, being the first state normal school designed by him. Construction following his original Beaux-Arts scheme occurred between 1908 and 1940. This survey agreed with the McCleary recommendation that the original JMU campus was eligible for the Virginia and National Landmarks.

A list of the survey records from Harrisonburg, on file with the VDHR, is included in the Plan Background Information Supplement. There are 483 standard VDHR files, plus 24 additional survey files prepared by the Virginia Department of Transportation for transportation construction projects and to catalogue Harrisonburg's bridges. Missing from this list are the survey files for the 1981 downtown survey, which was done in blocks and assigned survey numbers 115-0027 through 115-0053.

### <u>Historic Preservation Efforts</u>

Harrisonburg was the last county seat in the Shenandoah Valley from Winchester to Lexington and the last City or town between Winchester and Staunton to have a State or National Register-designated district. All of this survey work has left Harrisonburg with a wealth of information on its historic assets and many recommendations for measures to ensure that these resources are protected for future generations.

Listing on the Virginia and National Registers brings no regulatory requirements for property owners, but makes the properties eligible for state and federal tax credits for rehabilitation of historic structures within the district. It also requires state and federal agencies to avoid actions that might harm historic structures within the district. Properties within historic districts also tend to appreciate in value at a faster rate than other properties, providing benefits to historic property owners and to the community's tax base.

There have been several efforts to establish districts within the City. The VDHR worked with Harrisonburg on two separate districts during the late 1990s. In September 1995, the Planning and Community Development Department submitted a Preliminary Information Request application for VDHR to determine if a proposed Court Square Historic District would be eligible for listing on the Virginia and National Registers. The proposed district encompassed 35 acres including the original town boundaries around Court Square, as well as along both sides of Main Street from Gay Street on the north and to the JMU campus on the south. The proposed district included residential, commercial and governmental buildings dating from the 1870s to the 1930s. It was the stated intent of the proposed district to encourage property owners to take pride in the historic character of the area, to make these properties eligible for state and federal tax incentives for restoration and rehabilitation, and to help preserve the buildings for future generations.

In February 1996, VDHR determined that the proposed district was eligible for listing on the Virginia and National Registers. The Committee for Downtown Harrisonburg requested that the City pursue the designation, but some downtown property owners expressed concern about possible future restrictions on their property. The City Council decided not to nominate the district to the registers.

In October of 1997, the City of Harrisonburg submitted a Preliminary Information Form application for a second proposed historic district, the Old Town Historic District. The Old Town neighborhood, located between downtown and JMU, has long served as a prominent residential area and includes many fine homes dating from the early 1900s. The proposed district was bounded on the north by the 200 block of East Water Street, on the east by the east side of Ott Street, on the south by the northern side of Cantrell Avenue, and on the west by South Main Street. In April 1998, the VDHR Review Board determined that the Old Town Historic District would be eligible for listing on the Virginia and National Registers. A group of neighborhood residents worked on completing survey forms on all of the structures within the proposed district, and by November 1999 had 81 forms completed. The survey work was never completed.

Following the two surveys of the JMU campus in the 1980s, little effort was made to nominate the campus to the Virginia and National Registers until 2002, when students in a JMU History class tried to pursue the designation with the JMU Administration. No action has been taken by JMU to date to complete the nomination process. As of 2002, however, the Governor has a new memorandum of agreement with VDHR to encourage more State-owned properties to be listed on the National Register.

The Harrisonburg-Rockingham County Historical Society, located in Dayton, provides a wealth of additional information relating to Harrisonburg's history. In 1995, the Society launched a major initiative to become the finest regional historical society in the Commonwealth. This led to a new 5,000 square-foot exhibit on Rockingham County history, the expansion of its Shenandoah Valley folk art collection, re-engineering of its electric map on Stonewall Jackson's Shenandoah Valley Campaign, and significant additions to its genealogy library. It also maintains an extensive photographic collection.

A recent historic preservation effort in the City was directed at the rehabilitation and expansion of the Lucy F. Simms School on Simms Avenue, which is now known as the Lucy F. Simms Center for Continuing Education. A nomination of this historic City school to the Virginia and National Registers was submitted and approved by the Virginia Landmarks Commission.

In 2003, Harrisonburg Downtown Renaissance formed a Historic District Advisory Committee to consider the advantages and disadvantages of creating a downtown historic district. The committee was composed of City and property owner representatives. After months of meetings and consultation with the Department of Historic Resources and other communities in the state, the group recommended application for a historic district with the understanding that Harrisonburg Downtown Renaissance would not advocate for the creation of a local historic district and architecture review board in the future. In 2004, the City contracted with Landmark Preservation Associates to conduct the architectural survey and submit the nominations forms. In December 2004, the Downtown Historic District was designated a Virginia Historic Landmark, and in January 2005, the district was listed in the National Register for Historic Places.

Following more than a year of discussion and meetings between representatives of Old Town, Harrisonburg Downtown Renaissance, and the Department of Historic Resources, the decision was made by Old Town residents to contract with Sabe Preservation Consulting to conduct the architectural survey and submit the nomination forms to create a historic district. In September 2007, the Old Town

Historic District was placed in the Virginia Landmarks Register, and then in February 2008, the district was entered into the National Register of Historic Places.

## Potential for Future Historic Preservation Efforts

The City has had extensive survey and district preparation work completed over the past 20 years, which helped to lay the groundwork for the creation of the two historic district designations. This information provides a rich resource for those interested in the City's fascinating history, as well as a strong foundation for future preservation efforts.

Many communities have realized their historic buildings not only provide a link to their past, but also a powerful economic asset. Cities such as Staunton and Lexington have had great success using the National Main Street Center's Main Street approach to downtown revitalization, which is a proven comprehensive program for enhancing historic downtown commercial areas. An average of \$25.00 is reinvested in the community for every \$1 spent on Main Street programs nationwide.<sup>1</sup>

The National Main Street program offers a four-point approach through community driven, comprehensive strategies to revitalize downtowns and neighborhood business districts. The four points include: organization, promotion, design, and economic restructuring. These four points are also accompanied by eight strategies for communities to utilize in their revitalization efforts. In recognition of the great potential of the Main Street approach to assist Harrisonburg in enhancing its downtown, Harrisonburg Downtown Renaissance pursued a Main Street revitalization program for the City's historic core and achieved this designation in August 2004. Harrisonburg Downtown Renaissance, initiated by City Council in April 2002, is developing a comprehensive vision and master plan to revitalize downtown Harrisonburg based on the Main Street four-point approach. Rehabilitation of historic buildings to enhance the physical appearance of the district is one of the major strategies of the Main Street approach.

Rehabilitation of historic buildings creates local jobs and generates local sales for specialized construction materials. Rehabilitated buildings in traditional downtowns are great locations for the small businesses that drive local economies, because their sizes lend themselves to a variety of smaller retail and office spaces. In many cities, they also have become magnets for incubator businesses, such as the Rosetta Stone language learning software company in downtown Harrisonburg that was started by a JMU professor and his family. Harrisonburg's historic buildings provide significant opportunities for such innovative business development.

Historic downtowns have a character that is conducive to tourism and entertainment businesses that can draw revenues from outside of the City as well. Well-preserved downtowns increase the quality of life of the community and help in attracting and retaining new business and industry. All of these benefits also translate into higher tax revenues for the community through higher real property values, higher transient occupancy taxes and higher sales tax revenues. Beyond these benefits, the preservation of the community's historic assets ensures that its history is understood and protected and provides an important context for new development that will respect and enhance the existing community, rather than make it just another "Anytown, U.S.A."

With the creation of the historic districts, one concern is the real and potential loss of contributing buildings to demolition. Not only can this compromise the historic character of downtown and residential neighborhoods, but if too many buildings are demolished, it could lead to the de-designation

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<sup>&</sup>lt;sup>1</sup> The National Main Street Center web site: www.mainstreet.org

of the historic districts and the accompanying loss of tax credits for rehabilitating historic buildings. This concern must be balanced with the interests of maintaining property rights and avoiding over regulation.

Although not located within the City's downtown, one of the City's historic landmarks recently received a significant improvement. The Turner Ashby Monument, maintained by the United Daughters of the Confederacy, was accessible from a private street off of Port Republic Road, but is now accessible from Turner Ashby Lane; a public cul-de-sac street, completed in early 2009, which intersects Neff Avenue between Port Republic Road and Reservoir Street. The improvements include better parking options and offer visitors and tourists a more user friendly entrance to the monument.

## Historic Resources Goals, Objectives and Strategies

- Goal 6. To provide a wide and equitably distributed range of arts and cultural opportunities for all ages.
  - Objective 6.1 To expand arts and cultural opportunities with a focus on creating a major arts district in the downtown/JMU area.
    - Strategy 6.1.1 To continue promoting the Arts & Cultural District in the downtown area as established by Chapter 5 of the Harrisonburg City Code.
    - Strategy 6.1.2 To support organizations focusing on the arts and to support the efforts of Harrisonburg Downtown Renaissance.
    - Strategy 6.1.3 To cooperate with James Madison University in the development of a Cultural Arts campus on the west side of Main Street.
    - Strategy 6.1.4 To include an arts calendar or a link to an arts calendar on the City's web site.
    - Strategy 6.1.5 To display the work of local artists in City facilities.
  - Objective 6.2 To improve library offerings through expansion of internet access and the development of branch libraries.
    - Strategy 6.2.1 To monitor the amount of internet use at the main library and its branches in order to provide sufficient computer stations, capacity, and speed to meet the internet needs of library patrons.
    - Strategy 6.2.2 To plan for future branch library needs on the east side of the City a branch, perhaps in rented or donated space, within five to ten years and a major new branch facility as may be needed in the future.
- Goal 7. To celebrate the City's heritage and preserve and protect its historic resources as essential elements of the City's economic health, aesthetic character, and sense of place.
  - Objective 7.1 To disseminate information about the history and historic resources of the City of Harrisonburg.
    - Strategy 7.1.1 To make the Visitor Center and gift shop operated by the Harrisonburg Tourism & Visitor Services, in the historic Hardesty-Higgins House, a sales outlet for historical publications and a source of information on the historic resources and sites in the City.

- Strategy 7.1.2 To create a partnership between the Harrisonburg Tourism & Visitor Services and the Massanutten Regional Library to develop a historical research section in the library to which visitors to the Hardesty-Higgins House Visitors Center could be referred.
- Strategy 7.1.3 To develop a walking tour of historic sites in downtown Harrisonburg with appropriate brochures and signage, such tour to begin at the Hardesty-Higgins House visitors center.
- Strategy 7.1.4 To seek establishment of the Hardesty-Higgins House visitors center or other site in the City as the visitor orientation center for the Cross Keys/Port Republic Civil War Battlefields Cluster in cooperation with the Shenandoah Valley Battlefields Foundation.
- Objective 7.2 To promote and recognize quality historic preservation projects.
  - Strategy 7.2.1 To partner with the Harrisonburg-Rockingham Historical Society to implement an annual preservation awards program to recognize quality preservation projects.
- Objective 7.3 To establish historic districts.
  - Strategy 7.3.1 To work with local groups and the Department of Historic Resources to seek designation of historic districts in such areas as:
    - Residential neighborhoods adjacent to the Downtown Historic District;
    - James Madison University historic campus (in collaboration with JMU)
  - Strategy 7.3.2 To seek funding from the Department of Historic Resources for survey work and assistance with National Register Historic District nominations.
  - Strategy 7.3.3 To explore the option of passing an ordinance that would require approval from City Council before a demolition permit is granted or before architectural changes are made to a contributing building in a historic district.
- Objective 7.4 To conserve City-owned historic resources and to ensure that City development projects respect and reflect the historic character of the City and site context.
  - Strategy 7.4.1 To catalogue all City-owned properties that have historic value.
  - Strategy 7.4.2 To adopt policies for treatment of City-owned historic properties (maintenance, renovation, additions, and conditions when demolition is warranted) so as to preserve their historic value.
  - Strategy 7.4.3 To take advantage of federal and state historic rehabilitation tax credits by partnering with the private sector on City property rehabilitation projects.
  - Strategy 7.4.4 To assess and mitigate the impacts of all City projects on adjacent historic resources and areas.
  - Strategy 7.4.5 To design new City public facilities so that they respect and complement the historic character of the City and site context.
  - Strategy 7.4.6 To develop a plan to renovate the Municipal Building consistent with its historic character.

## **Chapter 9 Natural Resources**

#### Introduction

A comprehensive plan focuses many of its policies on the use of land; therefore, it is important to understand the qualities of that land and its natural resources. The geology, topography, soils, vegetation, wildlife, air, and water resources provide a framework for wise land use decisions that avoid environmental hazard areas and preserve valued natural resources.

### **Background**

## Geology

The City of Harrisonburg is located within the valley portion of the Ridge and Valley geologic province. The valley is underlain by sedimentary rocks of limestone, dolomite, and shale. A significant characteristic of the limestone and dolomitic rock of Harrisonburg, Rockingham County, and the Shenandoah Valley is its tendency to develop caves, solution channels, and sink holes as acid rainwater dissolves the rock over time. The geologic term for such limestone/ dolomite areas is "karst." The prevalence of sinkholes is significant because such areas can be unstable. Subsidence can damage roads and buildings, though catastrophic collapse rarely occurs.

Karst areas are particularly susceptible to groundwater contamination because of the direct connection between the surface and groundwater through sinkholes and along cracks in surface bedrock. Contamination that seeps down through the sinkholes and cracks can reach the honeycomb of channels and caves below, potentially travelling long distances through these conduits. While few houses or businesses in the City are dependent on groundwater for their source of drinking water, many homes in Rockingham County are served by wells. Some measures that localities can take to protect groundwater in karst areas include: prohibition of waste disposal in sinkholes, requirements that stormwater be directed away from sinkholes, and spill containment measures for industrial and other uses handling toxic or potentially polluting materials near sinkholes.

#### <u>Soils</u>

A review of the *Soil Survey of Rockingham County, Virginia* (USDA Soil Conservation Service, 1982), which covers the City as well, reveals that the City's soils are dominated by clayey soils formed from limestone. The primary issues for construction are depth to bedrock and the tendency of these soils to shrink and swell with varying moisture levels.

## Topography

The City is characterized by rolling topography. Slopes from 0 to 15 percent present few limitations for development. Land in the 15 to 25 percent range is appropriate for residential uses; commercial and industrial development with large buildings and parking areas require a great deal of grading to be constructed on these slopes and are generally less appropriate. Slopes 25 percent and over are usually considered unsuitable for development.

#### Vegetation and Wildlife

Harrisonburg is an urban area built within an agricultural area. It no longer contains large areas of woodland and natural wildlife habitat. Most wetland areas in Harrisonburg are small. Significant populations of deer are found in several sections of the City, but otherwise most types of wildlife are those found in urban and suburban settings. Harrisonburg is a certified Tree City USA city, a program of The Arbor Day Foundation and US Department of Forestry. Generally, the citizens of Harrisonburg

value the City's remaining green spaces and expressed interest in public meetings in these green spaces being preserved and expanded to the extent possible. Increased tree planting is also supported.

#### Water Resources

**Hydrology**: Harrisonburg is drained primarily by two streams, Blacks Run and the Sunset Heights Branch of Cooks Creek. About two thirds of the City sits within the Blacks Run watershed. The area of the City, west of Route 42 and South of Route 33, is in the Sunset Heights Branch watershed. Small areas in the northern part of the City drain to the watershed of the North Fork of the Shenandoah River. The Federal Emergency Management Agency (FEMA) provided the City with updated 100-year floodplain maps for Blacks Run and the Sunset Heights Branch in 2008. The City uses these maps to regulate development in the 100-year floodplain and to prohibit encroachment in the floodway.

Water Quality: Water quality has become an important issue due to several mandatory and voluntary water quality protection programs initiated by EPA, the Commonwealth of Virginia, and the Chesapeake Bay states. The first is the TMDL (Total Maximum Daily Load) program, the second is the Shenandoah and Potomac River Basins Tributary Nutrient Reduction and Nutrient Cap Strategies, and the third is the EPA requirement for the City to obtain a Virginia Pollutant Discharge Elimination System (VPDES) permit related to its Municipal Separate Storm Sewer (MS4) and for developers to obtain a VPDES permit for construction activity stormwater discharges. As part of the City's stormwater management program, developments over one acre are required to provide water quality improvement measures. The City regulates this in accordance with the Virginia Stormwater Management Regulations. Significant changes to these regulations are forthcoming.

<u>TMDLs</u>: The Federal Clean Water Act requires states to identify and clean up water bodies not in compliance with Federal and state water quality standards. Virginia has been required to prepare a list of such "impaired waters" and to determine the total maximum daily (pollutant) loads or TMDLs for each impaired water. The TMDL reflects the total pollutant loading a water body can receive and still meet water quality standards with a margin of safety built in. In 1992, EPA promulgated regulations regarding the development of TMDLs.

Meanwhile, Virginia adopted the *Water Quality Monitoring, Information, and Restoration Act* in 1997, which directed the Department of Environmental Quality (DEQ) to develop a list of impaired waters, to develop TMDLs for them, and to develop implementation plans. For Harrisonburg, six TMDL studies have been completed: two for Blacks Run, two for Cooks Creek, and two for Smith Creek. A TMDL study identifies the sources of the pollutants in the watershed and shows how the pollutant loads from each source must be reduced to meet the water quality standard. For each stream, DEQ has determined that violations occur for both fecal coliforms and benthic organisms. Fecal coliforms are a range of bacteria present in fecal wastes from warm-blooded animals. Their presence indicates the presence of bacteria harmful to humans. Benthic communities are made up of bottom dwelling organisms in streams. The number and types of benthic organisms found in a stream are indicators of pollution levels.

For Blacks Run, Cooks Creek, and Smith Creek fecal coliform studies, the primary sources have been identified as non-point – stormwater run-off pollution as opposed to pollution from a specific point, such as a wastewater treatment plant discharge pipe. Urban non-point sources include leaking sanitary sewer lines, failing septic systems, and pet and wildlife wastes. A TMDL Implementation Plan has been developed by DEQ, the Department of Conservation & Recreation in consultation with local landowners and citizens and the City and County to determine what must be done to meet the fecal coliform TMDL pollution load reduction goals. Virginia has chosen to develop TMDL implementation

plans that encourage voluntary actions to meet Federal water quality standards. The City, for example, has implemented a number of measures to reduce fecal waste loads, such as, a sanitary sewer inspection and management program to prevent sewage leaks, and education programs on septic pumpouts and pet waste clean-up.

The benthic TMDL studies identify the sources of pollution that adversely affect benthic organisms. Again, non-point source pollution is the problem, and in the City, sedimentation is the chief culprit. Harrisonburg continues to address these problems by such measures as: improved sedimentation and erosion control regulations and enforcement, stormwater management best management practices (BMPs), a stream bank stabilization program, planting of riparian vegetation, and increased street cleaning. While Virginia's approach has been to seek voluntary measures to reduce pollution loads, if such measures do not result in better water quality in streams, the state may require that measures be implemented to meet Federal water quality standards. EPA has the legal authority to require enforcement of TMDLs.

The City's Forest Management Plan also addresses water quality measures, which are primarily related to improving the quality of water at the City's intake area northwest of Rawley Springs, Virginia, along Dry River and two of its principal tributaries.

Shenandoah and Potomac River Basins, Tributary Nutrient Reduction and Nutrient Cap Strategies: While the TMDL program has as its basis the Clean Water Act and the law enforcement backing of the Federal government, the Shenandoah and Potomac River Basins Tributary Nutrient Reduction and Nutrient Cap Strategies are based on agreements between the Chesapeake Bay watershed states, agreements that are not currently federally enforced.

In 1987, Virginia, Maryland, Pennsylvania and the District of Columbia signed a Chesapeake Bay Agreement that recognized the role of nutrient pollution (nitrogen and phosphorus) in the Chesapeake Bay's water quality problems. In the 1987 agreement, the states set a goal of reducing controllable annual nitrogen and phosphorus loads into the Bay waters by 40 percent by 2000. In 1992, the states agreed that the most effective way to meet the 40 percent reduction goal would be to develop specific nutrient reduction strategies for each major tributary of the Chesapeake Bay river basin. With the cooperation of the City, Rockingham County and other localities in the Southern Shenandoah Region, including Augusta, Highland and Page counties, a tributary strategy was developed and adopted in 1996 for the region's portion of the Shenandoah River watershed. The strategy was projected to achieve a reduction of nitrogen loading by 43 percent and phosphorus loading by 40 percent for the Southern Shenandoah Region. The reduction was to come from both point and non-point sources. The point sources are the wastewater treatment plants, some of which were proposed to be retrofitted with biological nutrient reduction (BNR) technology to reduce nutrient discharges. The most significant reductions were projected to come, however, from agricultural non-point source reductions through the implementation of agricultural Best Management Practices (BMPs). The Harrisonburg Rockingham Regional Sewer Authority has since made BNR improvements to the North River Wastewater Treatment Plant. Meanwhile, Rockingham County and the Central Shenandoah Soil and Water Conservation District have worked with farmers to implement agricultural BMPs.

The 1987 Bay Agreement not only set a goal of reducing nutrient pollution by 40 percent by 2000, but also a goal of capping nutrient loads at that level. In other words, a "cap strategy" would need to be developed to prevent nutrient loads from increasing above the 40 percent level even as growth in the watershed continues. In March 2001, Virginia issued *the Draft Interim Nutrient Cap Strategy for the Shenandoah and Potomac River Basins*. The Nutrient Cap Strategy is called interim because water

quality goals for the Chesapeake Bay are slated to change. The final cap strategy will have to address these new goals, which are not yet finalized. Under the interim cap strategy, the City may be asked to implement stormwater management BMPs not only for new development but also to retrofit existing developed areas.

MS4 Phase II Stormwater Management Program: In 1999, EPA published a new rule extending stormwater quality controls to small cities. Large cities had already been required to obtain National Pollution Discharge Elimination System (NPDES) permits for their stormwater systems, but now small cities would be required to as well. Applications for the 5-year NPDES permit were due March 2003. As required by the rule, Harrisonburg's permit application included a description of its proposed stormwater management program to include six minimum control measures:

- Public education and outreach on stormwater impacts
- Public involvement/participation
- Illicit discharge detection and elimination (i.e. elimination of point discharges of pollution into the stormwater management system)
- Construction site stormwater runoff control (i.e. improved erosion and sediment control)
- Post-construction stormwater management in new development and redevelopment (urban stormwater management BMPs to control water quality as well as quantity)
- Pollution prevention/good housekeeping for municipal operations

The first 5-years of the permit ended June 30, 2008 and Harrisonburg submitted a new application and program plan, which became effective on July 1, 2009.

## Air Quality

The City of Harrisonburg and Rockingham County are currently considered to be "in attainment" of the National Ambient Air Quality Standards (i.e., no violations of the air quality standards have been observed). Recent regulations issued by EPA have revised the standard for ozone, making it more stringent. A number of communities across Virginia have been recommended by the Virginia Department of Environmental Quality for ozone "nonattainment" designation based on monitored data, including Shenandoah Valley communities of Frederick County and Winchester, the Roanoke area, and portions of Page and Madison counties in Shenandoah National Park. There is one ozone monitor in Rockingham County.

#### Noise

A primary source of noise in the City is Interstate 81. The level of traffic and the high percentage of trucks make this a significant source of noise for properties near the road. Noise levels exceed Federal Highway Administration (FHWA) noise standards at varying distances depending on the presence of screening topography. To address noise, the City should consider avoiding planning residential and other noise sensitive uses adjacent to the interstate or recommend standards for such uses that ensure that both indoor and outdoor ambient noise levels do not exceed FHWA standards.

#### **Light Pollution**

Light pollution has become an increasing concern in a number of localities and has been mentioned by Harrisonburg citizens. As more and more individuals and businesses install security lighting or increase the intensity of existing lights, the problems of poorly designed lighting systems increase. The Comprehensive Plan includes a recommendation to reduce light pollution, while recognizing the

importance of quality lighting for crime prevention. State code changes will be needed to implement standards to prevent excessive lighting.

## Natural Resources Goal, Objectives and Strategies

- Goal 8. To preserve and enhance the City's natural resources and encourage development that is compatible with nature.
  - Objective 8.1 To keep abreast of environmental issues facing the City and to monitor the City's environmental health.
    - Strategy 8.1.1 To tap local expertise as available to keep abreast of environmental issues facing the City and to monitor the City's environmental health.
    - Strategy 8.1.2 To prepare an annual or biannual "state of the City's environment" report using compiled data collected by the City, the Virginia Department of Environmental Quality, the Virginia Department of Conservation and Recreation and other sources and describing and recommending programs to address environmental issues.
  - Objective 8.2 To develop water and air quality improvement programs to comply with federal and state standards, programs and requirements.
    - Strategy 8.2.1 To continue to implement the City's MS4 Phase II storm water management program dealing with improving the quality of storm water runoff.
    - Strategy 8.2.2 To continue working with the Virginia Department of Environmental Quality, the Virginia Department of Conservation and Recreation, and other partner organizations that implement best management practices to improve stormwater and water quality.
    - Strategy 8.2.3 To collaborate with Rockingham County and the Virginia Department of Environmental Quality in developing an air quality improvement plan, should the region be declared to be nonattainment for ozone pollution.
  - Objective 8.3 To create a set of environmental performance standards for public and private development and redevelopment projects.
    - Strategy 8.3.1 Using state standards where applicable, to prepare a set of environmental performance standards for all development which may include such issues as:
      - Pollutant discharges into water resources
      - Air emissions
      - Erosion and sediment control
      - Noise exposure limits
      - Excessive light emissions
      - Energy use and efficiency
      - Protection of environmental features: floodplains, wetlands, steep slopes, sinkholes, tree cover

Sufficient funding will need to be secured to establish this new program.

To ensure coordination with state agencies on project compliance with state environmental standards.

- Strategy 8.3.3 To consider adoption of local environmental performance standards as either policies or regulations after public input.
- Objective 8.4 To preserve and expand green spaces and tree planting in the City.
  - Strategy 8.4.1 To consider adopting open space preservation requirements or incentives for new development.
  - Strategy 8.4.2 To purchase and accept donations of land for the implementation of the Blacks Run Greenway and other planned greenway and park projects.
  - Strategy 8.4.3 To include streetscape improvement plans in downtown, neighborhood conservation area, business revitalization area, and corridor enhancement plans.
  - Strategy 8.4.4 To implement landscape improvement demonstration projects at City gateways and other appropriate locations.
  - Strategy 8.4.5 To consider adding street tree planting and other landscape requirements for new development and redevelopment in the City's land use codes.
  - Strategy 8.4.6 To prepare and implement landscape plans for City public facility development projects.
  - Strategy 8.4.7 To provide proper maintenance of City trees to ensure tree health and to minimize damage to utility lines.
  - Strategy 8.4.8 To implement stream riparian buffer and planting projects in partnership with public and private entities when possible.

## Objective 8.5 To promote resource conservation.

- Strategy 8.5.1 To promote recycling through:
  - Continued public education campaigns
  - Adoption of regulations requiring businesses to sort their recyclable solid waste and make it available for collection
  - Giving City purchasing preference to recycled paper
- Strategy 8.5.2 To promote water conservation through:
  - Public education campaigns
  - Collaboration with local hardware and building supply stores to promote water conserving fixtures and appliances.

# **Chapter 10** Parks & Recreation

#### Introduction

The City's Parks and Recreation System and all components therein, has a considerable positive effect and influence on Harrisonburg citizen's quality of life, the health and well-being of its citizens, and community economic and environmental sustainability. The City is committed to a well developed Parks and Recreation System by offering diverse and varied activities, including improved health and stress reduction, adult and youth development programs, resource conservation and protection, flood protection, improved air quality, improved aesthetics, revenue generation, and enhanced property values.

## Background

The City's commitment to improved parks and an excellent recreation program is demonstrated by its adoption of the Comprehensive Parks and Recreation Master Plan in 2003. This Master Plan describes existing conditions of the parks and recreation system, provides results of a citizen survey, sets standards for future park development and makes recommendations for needed improvements to the system. In addition, Master Plans for two parks have been completed and accepted by the City. These include the Smithland Road Park Master Plan completed in 2004 and the Ralph Sampson Park Master Plan completed in 2008. The reader is referred to the Comprehensive Parks and Recreation Master Plan 2003 for detailed background information that was used to develop this Comprehensive Plan's goals, objectives and strategies. The following summary background information is drawn from the executive summary of the master plan.

## Survey of Citizens Recreation Interests

The main objective of the public survey was to obtain information on citizens' patterns of current use, preferences, and desires with the goal of understanding any current and future deficiencies in Parks and Recreation programs and facilities. Other objectives of the study were to discover effectiveness of the City's Parks and Recreation system as a service to the community, to gauge customer satisfaction and to determine the current level of use of City parks. The survey was conducted by telephone calls to 400 randomly selected respondents in each of the five voting precincts. A detailed analysis can be found in the appendix of the Comprehensive Parks and Recreation Master Plan 2003. The data gathered was tabulated and charted to reveal many facets of citizens' use patterns and needs. Some of the notable findings included:

- Approximately 85 percent of Harrisonburg residents use the Parks and Recreation system.
- Overall park use is distributed evenly over each voting precinct.
- Approximately 85 percent of Harrisonburg households rate their satisfaction with the Parks and Recreation system as good to excellent.
- Picnicking, swimming, hiking, biking and running were the activities most participated in by households.
- Soccer, football, golf, softball, baseball, basketball and tennis were the activities second most participated in by households.
- Sixty-five percent of Harrisonburg households visited museums as a leisure activity, 42 percent visited nature and interpretive centers.
- The top most requested improvements were a walking trail, bike trail, better security and activities for different age groups. Thirty percent of households had no suggested improvements to the Parks and Recreation system.

- The top most requested parks or facilities were a skateboard park, water parks and swimming pools, children's sports fields and walking/bike trails. Thirty-one percent of households had no suggested improvements to the Parks and Recreation system.
- The top most requested improvements to existing programs and classes were more variety of hours/scheduling, swimming classes, painting classes and better information of what classes are offered.
- Requests for new programs and activities were very diverse. Twenty-four percent of households had no suggestions for new classes or programs.
- The most desired leisure activities were concerts or music festivals, live theater, arts and crafts events, and sporting activities. Seventy percent of respondents did not know nor had any suggested improvements.
- Purcell, Hillandale, and Westover Parks were the most used parks overall by Harrisonburg households.
- Morrison, Purcell, and Westover Parks were the most frequently visited parks on average.
- Hillandale, Purcell, and Westover Parks were the most evenly used by residents of each of the five voting precincts.

#### Parks and Recreation Program Needs

The public survey and the comparative analysis of level of use standards revealed several shortfalls and needs for improvements in the Parks and Recreation system. Many of the needs expressed were in the area of athletic fields, walking trails, swimming pools, indoor hard courts and expanded programs for youth activities. A high demand was expressed for soccer and softball/baseball facilities. This was due to intensive use of existing facilities and the popularity of these sports with the general population as well as specific ethnic groups. In an analysis of available park acreage and distribution of parks by neighborhoods and voting precincts, it became evident that the population was relatively well served by larger community parks. However, the availability and distribution of neighborhood and mini parks was generally deficient. The east side of the City is the least well served by these types of parks. This area is where much of the expected population growth is speculated to occur.

The following summarizes the major recommendations of the Comprehensive Parks and Recreation Master Plan 2003:

- Purchase or dedicate sufficient land for several new neighborhood parks in the Waterman,
   Stone Spring, and Simms voting precincts.
- Develop several new mini parks in urban areas around the City.
- Expand and redevelop existing community and neighborhood parks, taking advantage of underutilized spaces.
- Support and develop a City-wide greenway system that includes connections to parks, schools and community facilities.
- Expand the Cecil F. Gilkerson Community Center to include additional hard court space, auxiliary gym, improved site circulation and parking, expanded activity rooms and expanded swimming facilities.
- Provide additional youth athletic fields and programs.
- Provide additional youth programs and activities.
- Expand program staffing, volunteers and hours for programs and classes where appropriate.
- Develop the Smithland road property as a major community and athletic park with amenities for the neighborhood in that area.

- Begin planning and development of a new Community Recreation Center in the southeastern sector of the City. The center should be accessible to the general public by mass transportation as well as by walking and bicycling.
- Provide a conveniently located facility for events and performances.
- Develop several new athletic fields including soccer, football, softball and baseball.

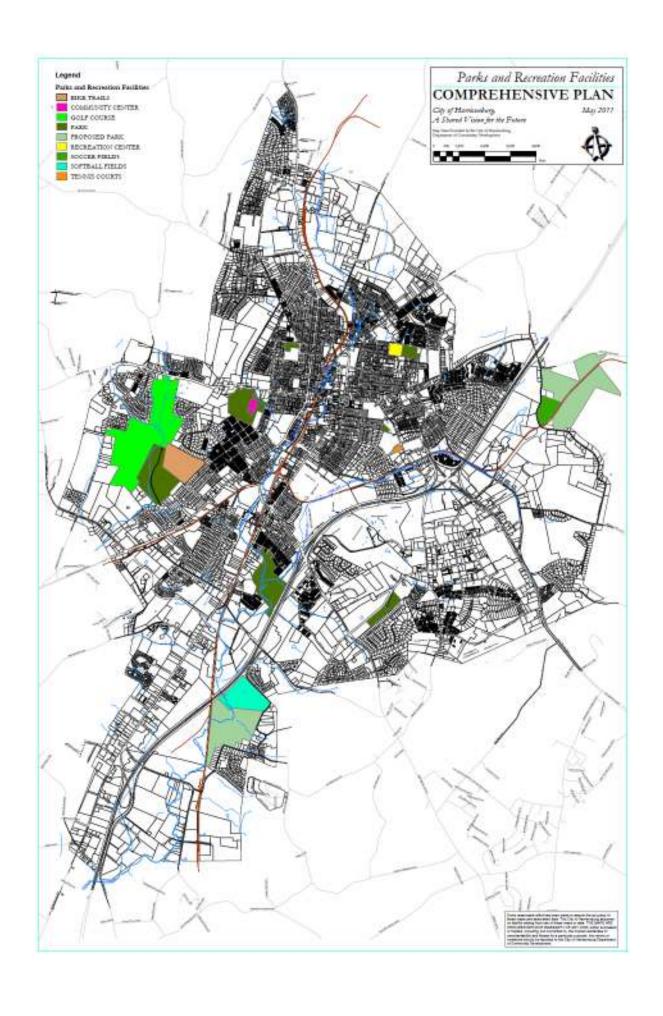
The goal, objectives, and strategies listed below focus on the physical facilities recommendations of the Comprehensive Parks and Recreation Master Plan 2003.

## Parks & Recreation Goal, Objectives and Strategies

- Goal 9. To meet the recreation needs of every citizen by providing comprehensive leisure opportunities and developing and maintaining a safe, well-distributed park and recreation system.
  - Objective 9.1 To continue to support and market Harrisonburg's parks and recreation system as a major community benefit and indirect revenue generator by implementing the Comprehensive Recreation and Parks Master Plan 2003.
    - Strategy 9.1.1 To incorporate by reference into this Comprehensive Plan the recommendations, policies, and proposals of the Comprehensive Recreation and Parks Master Plan 2003.
    - Strategy 9.1.2 To implement the recommendations of the Comprehensive Recreation and Parks Master Plan 2003 starting with the identified 2003-2005 priorities.
    - Strategy 9.1.3 To establish and maintain a riparian buffer on the creek banks of Blacks Run in Purcell Park to help protect and clean run-off and ground water going into Blacks Run.
  - Objective 9.2 To integrate parks and recreation programs fully into the City's environmental programs and policies.
    - Strategy 9.2.1 To assign Parks and Recreation Department staff to work with the Department of Planning & Community Development and Public Works staff so as to coordinate the department's activities with other City environmental initiatives as recommended under Goal 8.
    - Strategy 9.2.2 To include water and air quality improvement measures developed under Objective 8.2 into park plans.
    - Strategy 9.2.3 To apply environmental performance standards developed under Objective 8.3 to all park development projects.
    - Strategy 9.2.4 To involve the Stream Health Coordinator in establishing water and air quality improvement measures developed under Objective 8.2 into park plans.
  - Objective 9.3 To enhance facilities and programs to fully serve the population's diversity of needs.
    - Strategy 9.3.1 To serve needs identified in public meetings and in the telephone survey administered during the development of the Comprehensive Recreation and Parks Master Plan 2003.

- Strategy 9.3.2 To develop and implement an ongoing process for evaluating public recreation needs, e.g., through general surveys, user surveys, public input meetings, and task forces.
- Objective 9.4 To develop, to the extent possible, an interconnected, accessible network of park and recreational facilities through development of a greenway system.
  - Strategy 9.4.1 To create, to the extent possible, a network of pocket parks or green spaces that connect the City's parks with trails and linear open spaces. The Blacks Run Greenway plan describes such a greenway. Similar greenways are recommended along Cooks Creek and along a Norfolk Southern rail line recommended to be abandoned as described under Transportation Strategy 10.2.5.
  - Strategy 9.4.2 To design the greenways not only to provide recreational opportunities, but also to provide riparian habitat, protection from flooding, pollution filtering and visual relief from urban development, to the extent possible.
  - Strategy 9.4.3 To preserve the environmental and recreational values of these lands through enlightened conservation practices on City-owned lands and cooperative efforts with private landowners. The latter might include the purchase, acceptance of donation, and acceptance of proffers of land and easements from willing participants.
- Objective 9.5 To commit to providing high quality well distributed parks and recreation facilities.
  - Strategy 9.5.1 To implement improvements at existing parks and recreation facilities as recommended in the Comprehensive Recreation and Parks Master Plan 2003, including major improvements as follows:
    - expansion of the Cecil F. Gilkerson Community Center
    - continue the development of Smithland Road Park property into a major community and athletic park.
    - development of the Smithland Road property into a major community and athletic park.
  - Strategy 9.5.2 To plan for and develop a limited number of new parks as recommended in the Comprehensive Recreation and Parks Master Plan 2003, including:
    - neighborhood parks in the Waterman, Stone Spring, and Simms voting precincts
    - several new miniparks in urban areas around the City, including downtown
    - a new community recreation center in the southeastern sector of the City.
  - Strategy 9.5.3 To cooperate with the public schools in making school recreation facilities available to the general public, as appropriate.
- Objective 9.6 To enhance the appearance, safety and maintenance of parks and recreation facilities.

Strategy 9.6.1	To improve security at existing parks by evaluating use patterns, operation hours, visibility and maintenance.
Strategy 9.6.2	To create a set of specific design guidelines and standards for City parks and facilities addressing landscaping, architectural design, accessibility, safety and crime prevention.
Strategy 9.6.3	To incorporate ample landscaping in all park development.
Strategy 9.6.4	To provide high quality maintenance so as to increase the effective use of facilities and maintain an attractive appearance.
Strategy 9.6.5	To improve security in existing parks by evaluation use pattern, operating hours, visibility and maintenance.
Strategy 9.6.6	Work in cooperation with Harrisonburg Police Department to establish police patrols and presence and hiring a security firm to monitor parks during peak usage seasons.



## **Chapter 11** Transportation

#### Introduction

The Harrisonburg transportation system is comprised of several varying elements including an interstate highway, principal arterial roadways, a local road system, mass public transit, pedestrian facilities, bicycle facilities, public parking, and railroads. All facets of this system require constant maintenance, upgrades, replacement, and additions in order to serve the City's population properly. Each element of the system is complimentary to the others and serves the community as a network. Increasing usage on one element will likely cause a decreased usage on another.

It is important to note that transportation and land use should be linked. Changes in land use can change traffic patterns and affect the demands on transportation resources. There is growing scientific evidence that the provision of transportation improvements can have impacts on the demand for new development as well as on the welfare of existing neighborhoods and commercial areas. In 2007, the Virginia General Assembly passed significant legislation that intends to coordinate transportation with land use. House Bill 3202 made specific provisions that require localities to coordinate major land use changes with adjoining jurisdictions.

## **City Road Network**

<u>Classification System</u>: The City road system consists of multiple classification designations that correspond to traffic volumes or design criteria. The Virginia Department of Transportation (VDOT) classifies streets as local, collector, or arterial. As of 2010, the City had 316.26 lane miles of local, collector, and arterial streets. Local streets provide direct access to adjacent land and make up a majority of the transportation network, but carry a small proportion of vehicle miles traveled. All local streets are assigned a speed limit of 25 mph unless otherwise posted. Collector streets are intended to support moderate to heavy levels of traffic, routing traffic from, and sometimes through, residential areas to employment centers and shopping areas. Speed limits assigned to these streets range from 25 mph to 40 mph depending on design, traffic volumes, pedestrian presence, and other factors.

Arterials are designed and intended for consistently heavy traffic volumes, and usually connect towns and provide linkages to interstate systems. While arterial streets comprise a smaller percentage of lane miles, they support the majority of vehicle miles traveled in the City. Speed limits range from 25 to 60 mph.

Accepted streets must meet design criteria from the City's Design and Construction Standards Manual (DCSM) and also those put forth by VDOT. Unaccepted and/or private streets receive restricted City services. For the most part, the City is not responsible for maintenance on those streets and roads. The City also has a number of undeveloped "paper" streets, which are streets that were planned and platted, but have not yet been built. Some of these paper streets meet the City's requirement of 50-feet of right-of-way width, while others have considerably narrower right-of-ways. Future street construction/extension can take place in order to improve traffic flow or facilitate land development. In some cases, paper streets provide a possibility for shared use path connections. In the case of private development, construction costs are the responsibility of developers or residents. The Street Network Map, provided at the end of this chapter, illustrates the current street classifications of City streets.

<u>Transportation Funding</u>: In the Commonwealth of Virginia, any town or city with a population of 3,500 or greater is responsible for maintaining their own transportation facilities. Through VDOT, the

City is eligible to receive funding from two sources: Highway Maintenance Account Funds and Urban Construction Funds. The former can only be used for eligible maintenance activities on existing facilities while the Urban Construction Fund is earmarked for new construction projects and allocated to projects in the Commonwealth's Six Year Improvement Program (SYIP). Funding levels that localities receive for both maintenance and construction are ultimately determined by the General Assembly through the biennial budget process and then appropriated funding is prioritized and allocated by gubernatorial appointed members of the Commonwealth Transportation Board. Cities and towns receive funding on an annual basis.

The City competes for construction funding with other localities in the Staunton District, which includes the Counties of Frederick, Shenandoah, Page, Rockingham, Augusta, Alleghany, Rockbridge, Bath, and Highland along with the qualifying incorporated towns and cities located within each. Maintenance funds are determined based on the number of lane miles in a community, and in Fiscal Year 2010 the City received \$3.7 million from the VDOT Maintenance Account.

Historically, maintenance funding increases approximately 3 to 4 percent each year. However, with the economic downturn, the Urban Construction Fund has significantly decreased for the City, which is consistent with the outcome for other localities throughout the state. In Fiscal Year 2007-2008, the City received \$1,433,000 in urban construction funds. In Fiscal Year 2010-2011, the City anticipates receiving only \$38,000. Recent economic realities have led to increased devolution by the state in allowing localities to take on more responsibility for managing and constructing road projects. However, funding restrictions have presented challenges to the City to keep projects on schedule.

The City has developed a maintenance and road project program on a three-pronged approach, which involves federal, state, and local funds. The City and its leaders have realized that it can utilize federal and state dollars to advance projects, however, significant contributions have been made from local coffers to keep projects moving forward.

<u>Urban Construction Initiative</u>: Harrisonburg is one of eleven urban communities in the Commonwealth that is a member of VDOT's Urban Construction Initiative. In the past, all urban localities have left road construction projects to VDOT to provide the majority of funding, project design, and construction management. The City's involvement in this initiative has resulted in finding ways to streamline the VDOT process and to take project management roles at the local level opposed to the state level. This has led to the development of a Certification Program that is available as of 2009 to qualifying localities in Virginia. This translates to less state government oversight, and more decision making responsibility at the local level. Certified localities will be required to abide by all state guidelines.

Traffic Signals & Street Capacity: As of early 2011, the City has 85 traffic signals; many of which include pedestrian crosswalks (42 intersections with signalized crosswalks; 19 intersections marked but have unsignalized crosswalks). The Street Network Map, provided at the end of this chapter, illustrates the location of current signalized intersections. Traffic signals should only be installed when and where warranted based upon the criteria set forth by the Federal Highway Administration (FHA). There are a series of warrants for traffic signals that focus on traffic volumes, time amount of delay, accident history, and pedestrian presence. The City's goal is that all streets and intersections should operate on a Level of Service (LOS) "C" or better at all times. During peak hours, congestion occurs along arterial corridors during which the LOS drops to "D," "E," or in some locations, the worst level of service, grade "F".

<u>Transportation Management Program</u>: This Program's mission is to improve the quality of service of all modes of transportation in the City through the optimization of traffic signal function, including the programming, timing, and coordination of plans along corridors and consultation on intersection design enhancements. The program manages and regularly updates traffic volume and composition studies used to create models of traffic flow to assist in planning decisions.

As James Madison University (JMU) experiences increasing enrollment, new development occurs causing more people to move into the Harrisonburg community, therefore, it will become increasingly important for our transportation corridors to be re-evaluated and for traffic signal functions and intersection designs to be optimized.

Transportation Safety & Advisory Commission: City Council appoints a Transportation Safety & Advisory Commission comprised of four appointed "at-large" citizens and two City staff to make recommendations on issues related to traffic safety in the City. The Commission meets on a monthly basis and discusses complaints, concerns, and suggestions that are forwarded to them by citizens or City departments. Recommendations for improvements are typically directed to the Public Works Department and are funded through the department's operating budget; larger projects may be incorporated into the Capital Improvement Program. In 2010, a Bicycle & Pedestrian Subcommittee was established by the Commission following City Council action to formally add bicycle and pedestrian matters as an additional area of responsibility of the commission. The subcommittee works with the Commission, staff, and citizens to identify needs and opportunities for improving the City's network of bicycle and pedestrian facilities.

Neighborhood Traffic Calming Program (NTCP): The Public Works Department administers the City adopted Neighborhood Traffic Calming Program in partnership with the Police Department and others to improve the character and appropriate use of local streets in neighborhood areas by incorporating community awareness and education, motorist education, enforcement, and physical devices. Neighborhood involvement in the program requires that neighbors submit an enrollment form to the Public Works Department with a majority of the residents' signatures, agreeing that there is a "perceived traffic problem." Staff conducts speed and volume studies to determine whether the perceived traffic problem can be substantiated. City staff and neighborhood representatives will then hold a neighborhood meeting to solicit input from neighbors and begin developing passive solutions to traffic problems, which may include striping, signage, education, and/or enforcement. City staff will then re-analyze after implementation of suggested solutions. If passive traffic calming measures are deemed ineffective after being reanalyzed, physical roadway changes such as chicanes, traffic circles, raised speed tables, and/or speed humps, could be installed.

Any physical improvement that would restrict traffic must be considered by emergency response departments including Police and Fire. Physical improvements are constrained by available funds and strong neighborhood consensus. There have been five City neighborhoods that have enrolled in this program since its inception in 2002.

Master Transportation Plan: The Master Transportation Plan, which establishes the City's long-range transportation policies and road projects, includes the Street Improvement Plan, along with the Bicycle & Pedestrian Plan and the Public Transportation Department's Transportation Development Plan. The Street Improvement Plan maps the details for needed improvements and new facilities. The locations of the improvements are often within or adjacent to property that has yet to develop. Identifying future improvements allows the City to work with property owners and developers to implement complete street construction.

There are several new streets shown on the Street Improvement Plan that would be "local" streets intended to promote increased connectivity between and within residential communities. The need for these roads will be driven primarily by development of surrounding areas and not by the need of the public at large. For this reason, although the City will encourage their construction, they are anticipated to be funded and constructed by private developers as property in the surrounding area is developed.

A full list of the proposed road improvement projects, as included in the Street Improvement Plan Map, can be found in Table 11-1. The table and the associated Street Improvement Plan Map, provided at the end of this chapter, are separated into quadrants by Main Street and Market Street.

Pedestrian and bicycle facilities shall be considered with all new road projects and improvements. A list of proposed pedestrian and bicycle facilities can be found in the City's adopted Bicycle & Pedestrian Plan. These proposed improvements should also be coordinated with Rockingham County's Comprehensive Plan and JMU's Comprehensive Master Plan.

Table 11-1: Street Improvement Plan – Recommendations and Cost Estimates

Northwest

A. Northwest Connector. Construct a new limited-access facility extending from Garbers Church Road at West Market Street and connecting it with Interstate 81 Exit 251 in Rockingham County. Note: cost estimate provided is for improvements within City limits.	\$350,000
B. Mount Clinton Pike from proposed Northwest Connector to Virginia Avenue. Widen the street to a three- or four-lane facility with a median and bicycle and pedestrian facilities; some parts are located within Rockingham County. Note: cost estimate provided is for improvements within City limits.	\$4,300,000
C. Intersection Improvement at Mount Clinton Pike, Park Road, and Chicago Avenue. In conjunction with the Mount Clinton Pike and/or Chicago Avenue improvements; consider a possible roundabout or other intersection improvement.	\$430,000
D. Mount Clinton Pike to Acorn Drive Connector.	\$650,000
<b>E.</b> Acorn Drive to Friendship Drive Connection. Note: Friendship Drive is in Rockingham County.	\$375,000
F. Intersection Improvement at Virginia Avenue and Acorn Drive. Install new traffic signal.	\$165,000
G. Intersection Improvement at Liberty Street and Acorn Drive. Install new traffic signal.	\$165,000
H. Parkwood Drive. Construct a three lane facility including a median.	\$400,000
I. Summit Avenue to West Market Street Connections. Includes connecting Hillside Avenue to College Avenue.	\$600,000
J. Chicago Avenue from Mt. Clinton Pike to 3 <sup>rd</sup> Street.  Create a center turn lane along with pedestrian and bicycle improvements.	\$7,000,000
K. Intersection Improvement at Chicago Avenue and Waterman Drive. Consider a roundabout design or other intersection improvement.	\$500,000
L. Virginia Avenue from West Gay Street to 5 <sup>th</sup> Street. Widen to a four-lane facility, remove on street parking, and replace storm drain system.	\$2,500,000

M. Intersection Improvement at Virginia Avenue/High Street and West Gay Street. Widen the intersection to accommodate truck traffic and extend the westbound left turn lane.	\$350,000
N. North Liberty Street from Edom Road to North City Limits. Reconstruct and widen to create a center turn lane, add curb and gutter, bicycle lanes, and install storm drains.	\$4,600,000
O. West Washington Street. Make improvements from North Main Street to Liberty Street.	\$125,000

# Northeast

A. North Main Street from Noll Drive to Charles Street. Create a center turn lane, remove parking. Consider bicycle lanes if possible.	\$600,000
B. North Main Street from Charles Street to Mt. Clinton Pike. Create a center turn lane and construct bicycle and pedestrian facilities.	\$2,000,000
C. North Main Street to Smithland Road Connector. Improve to a four-lane facility on Vine Street and construct new alignment between Vine Street and Smithland Road. Note: Cost estimate provided is for sections within city limits.	\$400,000
<b>D. Smithland Road.</b> Construct four lane facility with bicycle and pedestrian facilities and raised median from intersection of Linda Lane to Old Furnace Road at I-81.	\$3,000,000
E. East Washington Street Extended. Extend East Washington Street into Rockingham County to intersect with the North Main Street to Linda Lane Connector and to North Main Street at the Technology Park.	\$200,000
F. Intersection Improvement at East Washington Street and Vine Street. Widen road to add a left turn lane on East Washington Street. Add northbound left turn lane on Vine Street.	\$75,000
<b>G. Interchange Improvement.</b> Construct I-81 interchange ramps at Smithland Road and Buffalo Drive and reconstruct the bridge.	\$20,000,000
H. Intersection Improvement at Smithland Road and Old Furnace Road. Construct possible roundabout.	\$200,000

I. Longview Drive and Vine Street. Reconstruct intersection and extend new road to City limits to connect with Leyland Drive in Rockingham County.	\$150,000
J. Keezletown Road. Construct a two-lane facility with median and bicycle and pedestrian facilities.	\$2,000,000
K. Interchange Improvements at East Market Street and I-81 (Exit 247). Remove clover leafs and install new traffic signals and other improvements.	\$4,000,000
L. East Market Street. Add lane to westbound facilities between east City limits and Country Club Road for a total of three lanes.	\$1,500,000
M. Rebuild the two East Market Street bridges over Railroad and improve East Market Street from I-81 to Cantrell Avenue.	\$16,000,000
N. Country Club Road from East Market Street to I-81 Bridge. Construct a three lane facility including a center turn lane with bicycle and pedestrian facilities.	\$3,400,000
O. Cantrell Avenue Extended and Country Club Road from I-81 Bridge to Vine Street. Extend Cantrell Avenue from East Market Street into Country Club Road. Create new intersection with Country Club Road and Country Club Court. Add sidewalk and bike facilities to Cantrell Avenue and Country Club Road.	\$2,500,000
P. Linda Lane from East Market Street to Country Club Road. Widen to a five-lane facility with pedestrian facilities.	\$7,100,000
Q. Old Furnace Road. Between Vine Street and Smithland Road, improve to a three lane facility including center turn lanes and bicycle and pedestrian improvements.	\$2,500,000
R. North Carlton Street. Improve to a three lane facility including center turn lanes, sidewalks and storm drain facilities.	\$450,000
S. East Market Street Safety Improvements between Linda Lane and Chestnut Ridge Drive. Redesign crossovers from private entrances at three locations to reduce motor vehicle conflicts, improve turning lanes, construct new sidewalks, and install pedestrian crosswalk signals.	\$1,000,000

East Market Street. Extend eastbound left turn lane.	
U. Intersection Improvement at East Market Street and Country Club Road. Widen Country Club Road at East Market Street to accommodate dual left turn lanes off of Country Club Road.	\$500,000
V. Intersection Improvement at Keezletown Road and Country Club Road. Include new traffic light.	\$300,000

# Southeast

A. Reservoir Street. Improve Reservoir Street to a four lane facility between East Market Street and Cantrell Avenue with turn lanes at specific intersections and bicycle and pedestrian facilities.	\$1,200,000
B. Reservoir Street from University Boulevard to Health Campus Drive in Rockingham County. Create a four lane facility with a center turn lane, including pedestrian and bicycle facilities and enhancing traffic flow at intersections. Note: Cost estimate provided is for sections within City limits.	\$8,000,000
C. Lucy Drive from Purple and Gold Way to Reservoir Street. Construct a three-lane facility.	\$200,000
D. Intersection Improvement at Ridgeville Lane and Foley Road.	\$1,200,000
E. Norwood Street to East Market Street Connections.  Construct a local street to connect Norwood Street, Hawkins Street, Franklin Street, Highland Avenue, Long Avenue and East Market Street.	\$200,000
F. Port Republic Road, Neff Avenue, University Boulevard Connection. Construct connection for, at minimum, pedestrian and bicycle use, and consider public transit use.	\$400,000
G. Intersection Improvement at University Boulevard and Evelyn Byrd Avenue. Widen lanes to accommodate new left turn lanes in all directions.	\$300,000
H. Intersection Improvement at University Boulevard and Carrier Drive. Install new traffic signal.	\$170,000
I. Neff Avenue from Port Republic Road to Turner Ashby Lane. Widen roadway and add median.	\$1,400,000
J. Interchange Improvement at Port Republic Road and I-	\$20,000,000

81 (Exit 245) and Capacity Improvements on Port Republic Road.	
K. Skylark Lane to Port Republic Road Connections. Note: Cost estimate provided is for sections within City limits.	\$300,000
L. Southeast Connector. Construct in Rockingham County, a facility that connects Route 33, Port Republic Road, and the new Erickson Avenue-Stone Spring Road.	In Rockingham County
M. Peach Grove Avenue Extended From Terminus of Peach Grove Avenue and Greendale Road in Rockingham County.	In Rockingham County
N. Devon Lane to Stone Spring Road Connection.	\$150,000
O. Mineral Springs Road to Stone Spring Road Connection.	\$150,000
P. South Main Street from Grattan Street to Port Republic Road. Construct landscaped median, replace waterline where necessary, install enhanced crosswalks, upgrade traffic signals, and replace street lighting.	\$1,400,000
Q. Intersection Improvement at South Main Street and Port Republic Road. Create slip lane and pedestrian refuge on Port Republic Road traveling westbound turning right northbound onto South Main Street.	\$250,000
R. South Main Street from Interstate 81 (Exit 243) to Route 704 in Rockingham County. Widen to a four-lane facility with a median. Improve the intersection of South Main Street and Covenant Drive. Note: cost estimate provided is for improvements within City limits.	\$7,400,000
S. East Kaylor Park Drive to South Gate and Boxwood Court Connection. Realign Boxwood Court.	\$500,000
T. Pleasant Valley Road from South Main Street to south City limits. Improve to a three lane facility including a center turn lane with bicycle and pedestrian facilities.	\$5,000,000
U. Greendale Road to Early Road Connection. Widen to three lane roadway with bicycle lanes and bridge over railroad.	\$8,400,000
V. Willow Springs Road to Cecil Wampler Road Connection in Rockingham County.	In Rockingham County
W. Intersection Improvement at South Main Street and South Avenue. Widen intersection at South Main Street and	\$250,000

South Avenue to accommodate additional lanes on South Avenue.	
X. Intersection Improvement at Reservoir Street and Carlton Street with roundabout or other improvement.	\$350,000
Y. Intersection Improvement at Reservoir Street and Cantrell Avenue. On Cantrell Avenue traveling eastbound onto Reservoir Street, construct dedicated right turn lane, slip lane and pedestrian refuge and provide for dual left turn lanes off of Reservoir Street.	\$350,000
Z. Cantrell Avenue between South Main Street and Ott Street and Intersection Improvement at Cantrell Avenue and South Main Street. Add a fifth lane on Cantrell Avenue from South Main Street to approximately 300 feet east of Ott Street with bicycle lane accommodations if possible. At intersection on South Main Street, add northbound right turn lane.	\$1,000,000
AA. Interchange Improvement. Reconstruct Exit 243.	\$25,000,000
BB. South Connector. Construct a new limited-access facility connecting South Main Street at Exit 243 to proposed Southeastern Bypass in Rockingham County. (Alternative routes considered.) Note: Cost estimate provided is for sections within City limits.	\$2,000,000
CC. (Old) Stone Spring Road Intersection Removal. Cul-desac old Stone Spring Road.	\$100,000

# Southwest

A. Erickson Avenue-Stone Spring Road Connector.  Construct four to five lane facility between west City limits on Erickson Avenue to east City limits on Stone Spring Road. Connections to Route 33 and Port Republic Road in Rockingham County. Phase I has been completed, and Phase II is under construction. Phases III and IV remain to be funded. Note: cost estimate provided is for total improvements within city limits.	\$64,000,000
<b>B. Pear Street and South High Street Intersection.</b> Removal of intersection and street crossing at railroad. Construct culde-sac on Pear Street.	\$150,000
C. Baxter Drive Extended. Construct facility between South Main Street and West Mosby Road in Rockingham County.	In Rockingham County

D. Peoples Drive Extended From the Terminus of Peoples Drive to Baxter Drive at Tasha Circle.	\$150,000
E. Carpenter Lane. Realign Carpenter Lane with intersection of Pike Church Road at South Main Street.	\$480,000
F. Southwestern Connector Proposed. Construct a new limited-access facility from southern terminus of Garbers Church Road and Cecil Wampler Road. Improvements to Garbers Church Road from South High Street (Route 42) to Erickson Avenue. Note: Two possible routes proposed.	In Rockingham County
G. Hidden Creek Lane Extended From Terminus of Hidden Creek Lane to Garbers Church Road with Connection to Erickson Avenue.	\$500,000
H. Willow Hill Drive Connection to Pleasant Hill Road.	\$200,000
I. Neyland Drive to Wyndham Drive Connection.	\$200,000
J. Intersection Improvement at South Main Street and Fairview Drive. Create a "right-in right-out" only at the end of Fairview Drive onto South Main Street or remove the intersection by constructing cul-de-sac or other terminus at the end of Fairview Drive.	\$50,000
K. Maplehurst Avenue Extended. Construct a road between Harrison Street and South Main Street.	\$60,000

#### Other

- **A.** Interstate 81 from South City Limits to North City Limits. Widen to six lanes or more and include the reconstruction of Buffalo Drive and additionally reconstruct Exit 251 in Rockingham County. Consider additional access points at Route 704 south of the City in Rockingham County and at Old Furnace Road in the City.
- **B. Railroad Relocation.** Relocation of the Norfolk Southern Railroad from within City limits to Rockingham County.

#### **Bicycle & Pedestrian Facilities**

In 2010, a Bicycle & Pedestrian Subcommittee was formally established by the Transportation Safety & Advisory Commission following City Council action to formally add bicycle and pedestrian matters as an additional area of responsibility of the commission. The subcommittee works with the Commission, staff, and citizens to identify needs and opportunities for improving the City's network of bicycle and pedestrian facilities.

The City recognizes the need to encourage bicycle and pedestrian travel, as they reduce traffic congestion, contribute to cleaner air, conserve energy, promote physical fitness, and result in a more

pleasant atmosphere. The City's Bicycle and Pedestrian Plan lists project priorities so the City can appropriately plan and implement improvements when necessary and feasible.

As traffic levels and associated congestion increase within the City, so does the need for a more encompassing system of bicycle facilities and pedestrian walkways. This deficiency is something that many residents in the City would like to see remedied. Better sidewalks, bicycle facilities or shared use paths placed between high-density residences and points of common destinations would help alleviate some of the growing traffic numbers throughout the City. Citizens are interested in having sidewalks installed leading to parks, schools, and other frequented destinations.

<u>Pedestrian Facilities</u>: The Public Works Department maintains all public sidewalks within the City limits, which for the most part are parallel to streets located within the street right-of-way. Though as of 2009 the Public Works Department presently maintains over 60 miles of sidewalk within the City, opportunities for pedestrian traffic remain limited. This deficiency is something many residents of the City would like to see remedied.

In addition to pedestrian infrastructure needs collected by the City's Bicycle & Pedestrian Committee, in partnership with schools and parents, the City has been evaluating and improving safe routes to schools and applying for funding through the VDOT Safe Routes to School program, which has resulted in funding for new sidewalk construction around Keister and Waterman Elementary Schools. According to the Comprehensive Recreation and Parks Master Plan, walking trails are one of the most requested improvements those polled within the City would like to see made.

<u>Bicycle Facilities</u>: The City adopted its first Bicycle Plan in 1994, and then adopted an update in 1999, 2005, and 2010. The 2010 Plan is a combined bicycle and pedestrian plan. By generating an awareness of bicycling issues, the plan prompted the City to include bicycle facilities in the design and construction of several new streets including Neff Avenue, Port Republic Road, Linda Lane, and within the Erickson Avenue-Stone Spring Road project and to retrofit existing roadways to add bicycle lanes such as those on South Main Street, Vine Street, and Park Road. The Plan also promotes awareness of funding mechanisms the City has used to obtain grant funds for changes to existing roadways.

Off Road vs. On Road Facilities: Planning and designing new transportation routes that include sidewalks, bicycle routes, and shared use paths are essential to the success of an alternative transportation system. Where feasible and possible, the City makes adjustments during regular routine maintenance to accommodate bicyclists and pedestrians. The City works proactively to incorporate these elements into new roadway projects and retroactively when developing street widening projects. It is recognized that there are many residents that enjoy riding bicycles, walking, or jogging on shared use paths that are separated from the roadway, while some bicyclists prefer to ride on existing streets, preferably in bicycle lanes, but also with motorized traffic. There are challenges with providing off road facilities adjacent to streets that serve adjacent land uses that create confusion for motorists and bicyclists alike. The City has identified that in the event of creating a limited access roadway—one which restricts or prohibits private drive entrance connections—a shared use path is ideal. This creates a safer environment for bicyclists where motorized traffic is generally traveling at higher speed rates. Where adjacent land use access connections are prevalent, the on-street bicycle lane is preferred.

<u>Blacks Run Greenway Plan</u>: Blacks Run is a six-mile-long stream that runs through the City, connecting neighborhoods in the north and south with downtown businesses, parks, and housing. Friends of Blacks Run Greenway (FBRG), a public-private organization that was formed in the fall of

2000, worked to establish a greenway path that would parallel Blacks Run and developed a Master Plan to develop concepts for construction of the trail. Significant challenges existed in the Master Plan and required the acquisition of significant easements and right-of-way. The trail was proposed to be adjacent to or directly through many industrial uses in the southern end of the City. The City's adopted Bicycle & Pedestrian Plan includes complementary and alternative routes to the Greenway Master Plan, which still meet the intent of the plan developed by FBRG.

## **Parking**

Adequate and conveniently located parking is an important component of the City's transportation network. Sufficient and well-designed public parking can assist in enhancing the City's alternative transportation network. Parking decisions have shifted from a Council appointed authority to City staff.

In the downtown area, the availability of parking is a long standing concern for its many diverse users. Two major parking structures were built in the 1970's as economic development tools to encourage businesses to remain in the downtown area. In 2006, metered parking spaces were removed throughout downtown.

By ordinance, in designated areas, the City has "zone parking," which makes on-street parking reserved only for neighborhood residents and their guests. For zone parking to be available, it must be verified that at least 25 percent of cars parked on-street of a residential zone must be nonresidents. Additionally, it is incumbent upon the residents to submit a petition of at least 50 percent of the residents to create a restricted parking zone. Three zones have been established, all of which have differing criteria.

JMU issues parking passes for a fee for the many students, faculty, and staff that commute to campus on a daily basis. A parking permit, however, does not guarantee availability of parking. Neighborhoods adjacent to the University are often attractive locations for campus-related parking. JMU's Comprehensive Master Plan indicates the expansion of existing parking amenities while also proposing new parking facilities. The City and JMU continue to work in collaboration to facilitate and improve the many issues with parking in the City, including improving bicycling, walking, and public transportation options.

#### **Mass Transit**

The Harrisonburg Department of Public Transportation (HDPT) began operation in November 1976 with the purchase of two taxi companies that were operating at a deficit and had planned to discontinue operations. Immediately after this purchase, efforts were made by the HDPT to coordinate all mass transit operations within the City. The Harrisonburg City School System, the Valley Program for Aging Services, Harrisonburg Social Services, the Health Department, and various other organizations participated in this coordination. In May 1977, City Council approved the purchase of three mini buses to begin a fixed-route system within the City. In October 1978, transit service began, with emphasis on the transportation needs of students and the elderly. HDPT also took over the operation of the public school's special education van and a vehicle that was used by the Valley Program for Aging Services.

Today, HDPT controls all of the public transportation operations that the City offers to its residents and visitors. In 2007, total transit ridership was 1,492,318. Transportation services provided by HDPT include: fixed-route mass transit buses, school buses, and paratransit operations to serve persons with disabilities—these include wheelchair-accessible buses.

Funding for these services is provided by the City, JMU, the Virginia Department of Rail and Public Transportation (VDRPT), and the Federal Transit Administration (FTA). HDPT is considered a small urban 5311 property for purposes of federal funding. The bus service has become an integral service to JMU, its students and staff, and helps alleviate traffic congestion. In the past few years, however, concerns have arisen over an increase in the number of commuter student parking permits issued by JMU, which has encouraged off campus students to drive to campus in place of utilizing the transit buses. The projected growth in the JMU student population and the corresponding increase in vehicular traffic, on roadways adjacent to the university, are a cause of great concern to the City as increasing traffic congestion has a direct and deleterious impact on our ability to operate mass transit services on a reasonable timetable.

Expanded Transit Operating Hours: To better meet the needs of our citizens, transit service should be available to them when they most need it. The current operating hours of the City routes are from approximately 7:00 a.m. until approximately 7:00 p.m. As many of our riders are employed in industries that are not limited to traditional working hours, an effort should be made to expand existing hours of service to provide more service hours later each day to better serve the transportation needs of City citizens.

Operational Upgrades at JMU: JMU is a major generator of trips that are served by public transportation. The historic growth of JMU has provided a great deal of impetus for the City to grow and expand its mass transit services. According to the JMU Office of Institutional Research, in 2002 JMU's fall enrollment stood at 15,612; by 2013 the State Council for Higher Education in Virginia (SCHEV) projects a total JMU fall enrollment of 19,996, an increase of 28 percent in a little more than a decade. This growth will place a greater demand for mass transit services. The proposed closure of the JMU campus to private vehicles, as outlined in their Master Plan, will most likely cause demand for transit services to increase as well.

- a. On/Near campus transit center: HDPT has currently reached a virtual limit to the number of transit buses that can be housed in the Godwin Hall Parking Lot. The addition of more vehicles to serve the growing campus population will require the identification of suitable layover points for buses and may require the construction of a dedicated mass transit center on or adjacent to the JMU campus.
- b. <u>Dedicated Transit Bus-Way</u>: The current operation of HDPT buses in mixed traffic conditions without dedicated pull-off lanes, especially on roads adjacent to campus such as Port Republic Road, South Main Street, Cantrell Avenue, and Reservoir Street, create operational inefficiencies in both the delivery of transit services—having to contend with private vehicles—as well as the flow of private vehicular traffic. To address these operational inefficiencies, City staff will seek to identify appropriate corridors and deploy the required mechanisms for dedicated mass transit facilities where feasible.
- c. <u>Bus pull-offs on JMU Campus</u>: Mass transit operations on the JMU campus could be made considerably more effective with the installation of dedicated bus pull-offs on Carrier Drive and Bluestone Drive, as well as the proposed Grace Street Transit corridor. The ability for a bus to pull out of the flow of traffic and standby at strategic locations to await passenger boarding and alighting increases can do a great deal to improve the efficiency and schedule adherence of mass transit. HDPT hopes to work with JMU to identify and construct the appropriate bus pull-off facilities on and around the JMU campus.
- d. <u>Bus arrival time system</u>: HDPT plans to deploy an electronic system that will allow transit customers to receive real-time bus arrival estimates at bus stops for transit services. The information can be received by automated instant messages, accessed by

web-browsers on computers or by cell phones equipped with mobile web-browsing software, or even display on LCD/LED displays deployed at individual bus stops. This system would aim to reduce the anxiety associated with uncertainty about bus arrival times and increase the confidence that a passenger had not missed the bus.

<u>Service Expansion to Rockingham Memorial Hospital (RMH)</u>: The opening of the new RMH campus provides a unique set of challenges to the City in its provision of mass transit services to the Harrisonburg community. As the hospital has moved from a location within the City limits to a site in the County, increased coordination and communication with Rockingham County and the Harrisonburg-Rockingham Metropolitan Planning Organization (HRMPO) is essential to future public transit infrastructure in the area.

<u>Downtown Harrisonburg</u>: The accessibility of the many commercial, cultural, and governmental services that exist in the downtown area is important to HDPT. As more urban renewal takes place downtown, the need for mass transit services will grow. Along with the growth in demand for transit services there will be a need for a dedicated downtown transfer center that can accommodate a larger number of vehicles than currently serve the downtown area. The existing transfer location at the Hardesty-Higgins House is not sufficient to accommodate the number of buses that currently serve the downtown area nor can it handle more buses from the increased demand that downtown development would require. As is it not an exclusive transit facility, drivers and passengers must continually contend with traffic generated by delivery trucks, private vehicles, and many other users of Bruce Street.

In light of these facts, the City intends to identify suitable locations in or around the downtown area on which to construct a dedicated transfer location that can accommodate a sufficient number of buses. Additionally, this transfer location may contain bicycle and pedestrian accommodations, a taxi cab stand, and a location for the launching of intercity bus operations that may locate in the City. In effect, it would serve as a hub for multi-modal transportation operations with easy access to the downtown area.

Construction of New Transit Facility: The current facility which houses HDPT operations was originally constructed in 1982, and despite subsequent additions, is currently approaching the end of its useful life. The growth in mass transit services provided by HDPT has placed a great deal of stress on the existing facility. The City commissioned Parsons-Brinckerhoff to conduct a feasibility study to evaluate HDPT's needs for a new transit facility and hopes to have a new building constructed within the next three to five years.

<u>Bus Stop Evaluation, Monitoring, and Improvement Program</u>: Bus stops are an integral part of any mass transit system and HDPT is placing an increased emphasis on the need to upgrade the amenities at its more popular bus stops.

- a. <u>Bus Shelter/Bench Installation</u>: HDPT continues to use data collected by an Automated Passenger Counter system used to identify high traffic bus stops. Continued efforts are being made to install concrete pads, benches, shelters, trash cans, bus information display boards, and lighting as appropriate. Additional efforts will be made to install benches and/or bicycle racks at appropriate bus stops that complement existing or planned bicycle and pedestrian facilities.
- b. <u>Solar powered bus shelter lighting</u>: HDPT will attempt to place bus stop improvements in areas that take advantage of existing street lights. When this is not possible, HDPT will

investigate the installation of solar power at bus shelters to provide power to illuminate the bus shelter.

<u>Multi-Modal Nature of Transit Planning</u>: The City recognizes that successful mass transit operations develop in tandem with an environment that provides effective pedestrian and bicycle infrastructure. The City also recognizes that a healthy transportation network should provide links between pedestrian and bicycle users to allow multi-modal opportunities for motor vehicle users. With this in mind, the City is committed to participating in planning for a vibrant multi-modal transportation environment with the appropriate federal, state, and local authorities.

Expansion of Transit Service into the Harrisonburg-Rockingham (UZA): The provision of seamless transportation services for citizens in the Harrisonburg urbanized area requires that the City work with MPO member localities to find ways to seamlessly offer transportation services across and between existing political boundaries. Specific areas for future service expansion include the Massanetta Springs Area, an intercity bus service (i.e. to Charlottesville), and other transit service.

Investigate Methods of Electronic Fare Collection: Currently, HDPT collects all fare box revenues in a simple mechanical fare box, and is therefore incapable of integrating electronic fare media into its operations. Since the majority of HDPT passengers are JMU students, faculty, and/or staff, it would make a great deal of sense for HDPT to implement a system that would be capable of reading a JMU Access Card (JAC Card) and check to make certain that the card was valid. This system would allow HDPT to capture a greater number of dollars at the fare box, since JAC Cards from those who no longer attend or are employed at JMU continue to be used.

<u>Computer-Aided-Dispatching/Automatic Vehicle Location</u>: The effective scheduling and dispatching of paratransit vehicles can go a long way to creating more cost-effective service deployment. A computer program can use a GPS database to plan scheduled calls by geographical location and plan the most efficient manifest for each paratransit driver. As HDPT is very interested in reducing the cost of complementary paratransit service without compromising its quality, HDPT wishes to pursue the installation of Mobile Data Terminals and Automatic Vehicle Location technology on its paratransit fleet to achieve the cost savings that this technology promises.

### **Regional Transportation System**

Harrisonburg is centrally located within the Shenandoah Valley and is bisected by Interstate 81, which serves as the major north-south transportation corridor along the Appalachian mountain range between New York and Tennessee. The portion of Interstate 81 located within the City's boundaries carries between 47,000-52,000 vehicles per day, which is heavily utilized by the trucking industry. Interstate 64, which carries approximately 37,000 vehicles per day, is a major east-west corridor that connects coastal metropolitan areas with inland communities as far west as St. Louis, Missouri. The interstate is accessible to the south via Interstate 81, which is approximately twenty-five miles south of the City. The close proximity of Harrisonburg to these interstates allows efficient delivery of services and makes Harrisonburg more accessible.

Metropolitan Planning Organization (MPO): Every urban region in the U.S. exceeding a population of 50,000 has a designated MPO to assist with transportation-related issues and to place the decision making process concerning transportation improvements in the hands of the localities, as opposed to being completely in the hands of VDOT. As transportation needs typically transverse political boundaries, it is important for growing jurisdictions to coordinate transportation programs and projects. The HRMPO was formed after the 2000 census, which determined that the Harrisonburg urbanized

area exceeded the population threshold. The area that received this designation includes Harrisonburg, the Towns of Bridgewater, Dayton, Mount Crawford, and a portion of surrounding Rockingham County.

A policy board, comprised of local elected officials and state and local transportation agency officials, heads the HRMPO and looks at transportation on a regional scale. The board is assisted by the Technical Advisory Committee (TAC) and other special sub-committees, which provide both professional advice and relay public input to the board. The board and committees are responsible for developing a twenty-year, long-range transportation plan every five years. The plan was last developed in August 2005. From the long-range plan, the three-year, short-term Transportation Improvement Plan (TIP) is developed and used for budgeting construction projects.

<u>Rail Access</u>: The City is served by three railroad companies: the Norfolk and Western Railway part of the Norfolk Southern Corporation, which travels north-south and provides local freight service to Grottoes and Elkton on a daily and requested basis; the Chesapeake Western Railway, which supplies local freight service to Harrisonburg and Elkton; and the Southern Railway, also part of the Norfolk Southern Corporation, which provides daily service to Harrisonburg and the Towns of Broadway and Timberville. There is no passenger rail service to Harrisonburg. The nearest passenger rail service is in the City of Staunton, approximately twenty-five miles to the south.

With limited grade separated crossings, this creates significant delay at railroad crossings on a daily basis. This has led to preliminary discussions between the City, County, and JMU to relocate a section of the Chesapeake & Western Railway around the northern edge of the City. This section of track currently traverses through the JMU campus. Possible alignments that would redirect this line through Rockingham County were proposed in 2005. Relocation would better serve Norfolk Southern customers and improve traffic congestion in and around the City. Relocation of the railroad could result in a conversion of portions of the existing Chesapeake & Western railway to a multi use greenway, or potentially serve as a short line trolley service to and from destinations within the City. The City had identified a federal program with dedicated funding to railroad relocations. However, since 2005, there has been little movement by stakeholders.

<u>Air Transportation</u>: The Shenandoah Valley Regional Airport is located in Weyers Cave, about 15 miles south of the City. Harrisonburg is a member of the Shenandoah Valley Regional Airport Commission, along with the cities of Waynesboro, Staunton, and the counties of Augusta and Rockingham. The airport supplies commercial flights to Dulles International Airport near Washington, DC. The airport offers door to door shuttle service to residents and visitors of the Airport's service area.

The Bridgewater Air Park is located approximately eight miles south of the City just outside of Bridgewater. The airport serves Rockingham County and is owned and privately operated by Rockingham Aviation Corporation. The paved runway extends 2,745 feet.

Southeast Connector: For many years, the City and County have recognized the importance of finding an alternate route to divert traffic around the City. The movement from Route 11, south of the City, to Route 33, east of the City, has been identified as a priority. A significant challenge in developing a route concept is balancing the need for efficient transportation service while maintaining a rural and agricultural base in Rockingham County. Two alignments have been developed and endorsed by the Commonwealth Board of Transportation and the Federal Highway Administration. Candidate Build Alternative 4 (CBA 4) has been prioritized and funded through VDOT's Six Year Improvement

Program. This route extends the City's Stone Spring Road-Erickson Avenue project into the County, connecting with the newly relocated RMH location and eventually connecting to Route 33 close to its intersection with Boyers Road (Route 704). A longer range vision is considered in Candidate Build Alternative 1 (CBA 1), which begins at the Mount Crawford/Bridgewater Exit 240 and would connect with Route 33 via Cross Keys Road (Route 276).

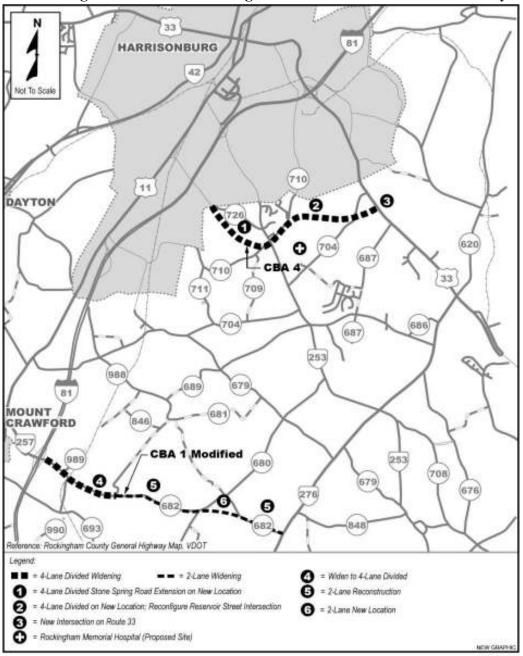


Figure 11-1: Harrisonburg Southeast Connector Location Study

Harrisonburg Southeast Connector Location Study

RECOMMENDED ALTERNATIVE

#### Transportation Goal, Objectives and Strategies

- Goal 10. To develop and maintain a safe and convenient transportation system serving all modes of travel, such as, automobile, pedestrian, bicycle and mass transit.
  - Objective 10.1 To adopt, update regularly, and implement a City Street Improvement Plan of needed road improvements that serves existing and future land uses and is coordinated with road improvement plans of the Metropolitan Planning Organization, the Virginia Department of Transportation, and Rockingham County.
    - Strategy 10.1.1 To work with Rockingham County and VDOT to maintain a regional transportation plan for the MPO.
    - Strategy 10.1.2 To seek inclusion of the road improvements recommended in the City Street Improvement Plan in the MPO regional transportation plan and to coordinate the two plans.
    - Strategy 10.1.3 To seek developer participation in completing the street network as shown on the City Street Improvement Plan.
    - Strategy 10.1.4 To expand the Design & Construction Standards Manual to include design standards for streets that reduce traffic congestion within the transportation system while accommodating all transportation modes. Standards should be included both for streets constructed by the City and those by the private sector specifying appropriate:
      - interconnectivity of the street system
      - street widths adequate to handle projected traffic volumes based on traffic impact analyses while avoiding excessive pavement widths
      - pull-off areas for buses on collector and arterial streets
      - bicycle facilities
      - sidewalk widths and location within the street right-of-way.
    - Strategy 10.1.5 To include applicable standards developed under Strategy 10.1.4 in the Subdivision Ordinance, as appropriate.
    - Strategy 10.1.6 To limit driveway access along arterial and collector streets, thus increasing safety and facilitating efficient traffic flow.
    - Strategy 10.1.7 To replace and rehabilitate bridges as needed to maintain the functionality and safety of the road network.
    - Strategy 10.1.8 To resurface pavement as necessary to obtain maximum substructure life.
    - Strategy 10.1.9 To maintain storm drainage facilities to ensure protection of roadways from flooding, erosion or undermining, and environmental water quality.
    - Strategy 10.1.10 To install broadband connections to all traffic signal systems.
    - Strategy 10.1.11 To establish a transportation management center that would enable real-time monitoring of signals and traffic flow throughout the City.
  - Objective 10.2 To promote alternative modes of transportation, and develop strategies that reduce motorized traffic demand on City streets.
    - Strategy 10.2.1 To plan for "complete streets" that are designed and operated to enable safe access for all users including bus, bicycle and pedestrian access into all new street and street improvement projects.

Strategy 10.2.2 To complete development of an on-ground bicycle/pedestrian network that is continuous and interconnected. Strategy 10.2.3 To consider alternative techniques to reduce traffic congestion such as expanded transit service, integrated and optimized traffic signal timings, remarking lanes, and integrating bicycle/pedestrian enhancements. Strategy 10.2.4 To prioritize, implement and regularly update the Harrisonburg Bicycle & Pedestrian Plan. Strategy 10.2.5 To seek conversion of the eastern most line of the Norfolk Southern system in Harrisonburg to a rail-trail as shown on the City Street Improvement Plan. Strategy 10.2.6 To require private developers to implement bikeway improvements in the City Bicycle & Pedestrian Plan that directly serves their property. Strategy 10.2.7 To review the following areas and make recommendations for sidewalk and shared use path improvements to at least one-half mile of schools/universities, parks, and public facilities and to fulfill the goals of the Bicycle and Pedestrian Plan. To continue to require all development and redevelopment projects to Strategy 10.2.8 provide desired sidewalks on both sides of the street. To continue to ensure that all new sidewalks and sidewalk repairs meet Strategy 10.2.9 American's with Disability Act (ADA) accessibility standards and for projects in or around sidewalks to maintain ADA accessibility standards. Strategy 10.2.10 To indicate specific projects for the annual allocation of funds for sidewalk, bicycle, and shared use path improvements in the Capital Improvement Program. Strategy 10.2.11 To establish wayfinding signage for bicycles. Strategy 10.2.12 To install bicycle racks at or around all public facilities. Strategy 10.2.13 To coordinate planning for regional bicycle facilities with the Central

## Objective 10.4 To promote and seek to increase transit ridership.

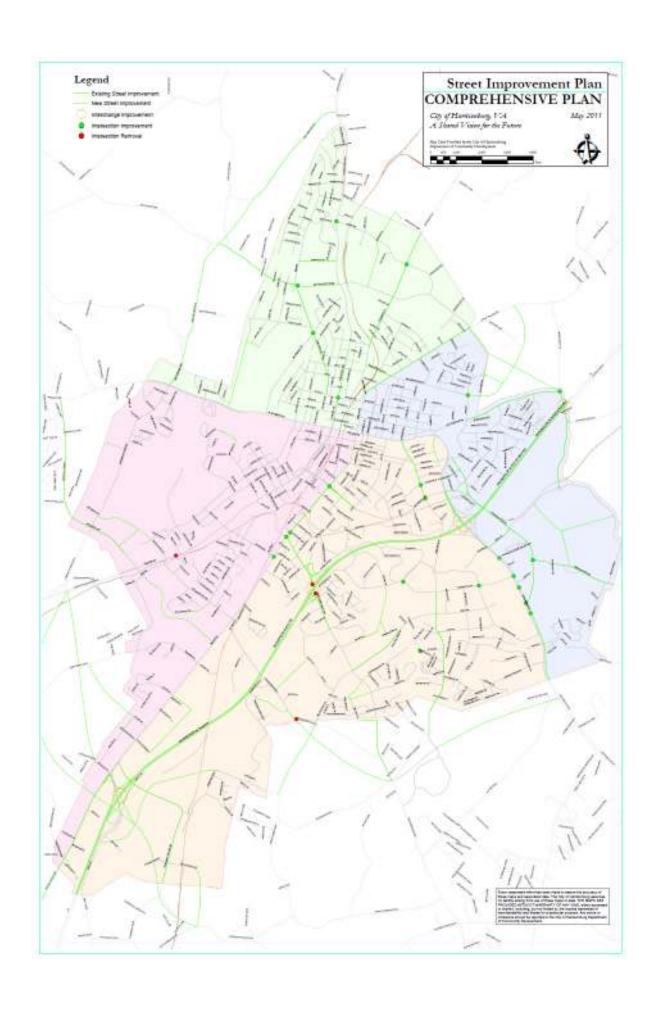
Shenandoah Planning District Commission.

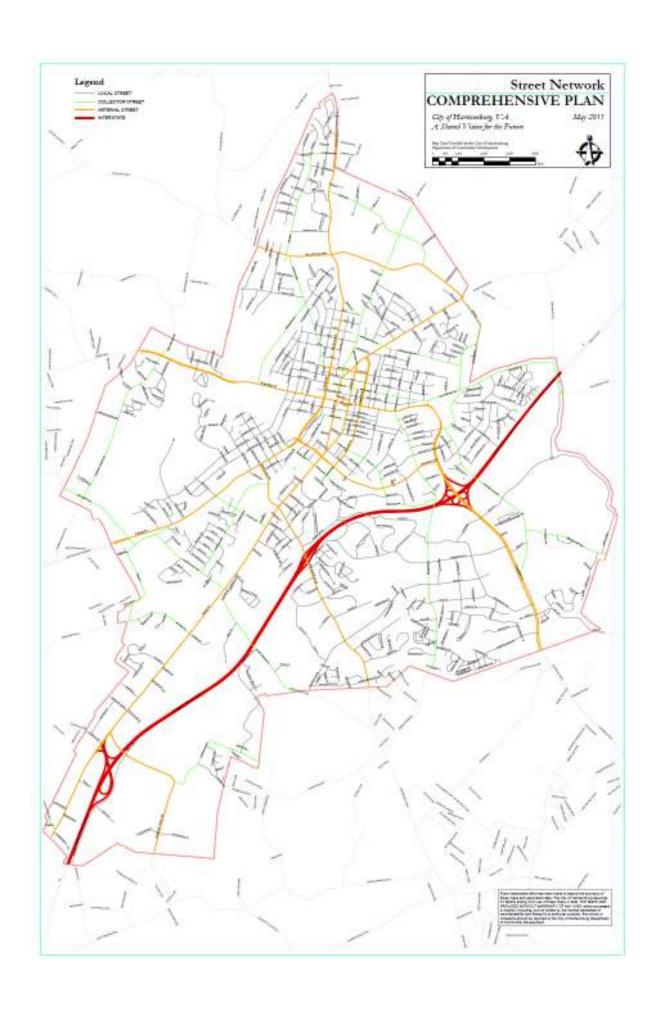
Strategy 10.4.1	To continue to work with JMU and EMU to increase transit use by students, faculty and staff.
Strategy 10.4.2	To promote bus, bike or walk to work and school days.
Strategy 10.4.3	To work with the City School Board to promote school buses, walking or bicycling as the primary forms of transportation to school rather than private vehicles, i.e. Walk to School Days and Safe Routes to School.
Strategy 10.4.4	To continue to revise and improve City bus routes and schedules to serve residential areas and major destinations (universities, major employment sites, shopping centers, downtown).
Strategy 10.4.5	To work with local employers to provide incentives to employees to travel to work by bus, bicycle or walking.
Strategy 10.4.6	To seek improvement of transit and paratransit services for the elderly and handicapped.
Strategy 10.4.7	To work with Rockingham County and other MPO member localities to expand existing and provide new transit routes from County growth areas to the City.
Strategy 10.4.8	To promote the development of a shuttle service from the City to the

Shenandoah Valley Regional Airport at Weyers Cave.

- Strategy 10.4.9 To promote the availability of public transportation connectivity between Harrisonburg and various destinations.
- Strategy 10.4.10 To implement technologies that allow for both increased information to be accessible to transit users and increased efficiency in resource deployment.
- Strategy 10.4.11 To identify and construct the appropriate facilities to accommodate future transit operations with an eye toward establishing transit-only facilities in appropriate corridors.
- Strategy 10.4.12 To continue to grow mass transit operations to keep pace with the increased demand stemming from development in the City, JMU, and other jurisdictions falling within the planning area of the Harrisonburg-Rockingham MPO.
- Strategy 10.4.13 To increase operational hours to make transit access more available.
- Strategy 10.4.14 To improve the amenities at transit stops to create a more comfortable experience for HDPT customers.
- Strategy 10.4.15 To work with all relevant parties to engage in truly multi-modal transportation planning.
- Objective 10.5 To assess and seek to mitigate and improve the transportation impacts of both public and private development and redevelopment projects.
  - Strategy 10.5.1 To continue requiring and reviewing traffic impact studies with all rezoning and special use permit applications proposing development of sufficient size to create a significant traffic impact. Such studies should include:
    - Impacts of project vehicular traffic on the road network
    - Impacts of the project on pedestrian and bicycle circulation and transit use
    - Mitigation measures that would lessen adverse impacts and maintain a desired level of service of "C" or better on nearby roadway links and intersections
  - Strategy 10.5.2 To perform similar traffic impact studies for public facilities projects.
  - Strategy 10.5.3 To review Zoning Ordinance parking requirements for multifamily projects to determine their adequacy. Consideration in this review should be given not only to increasing required parking, but also to measures to reduce parking demand.
- Objective 10.6 To reduce automobile trips through innovative means.
  - Strategy 10.6.1 To promote mixed use neighborhoods as recommended by the Land Use Guide so that residents of these neighborhoods can easily walk, ride a bicycle, or take transit to work, shopping, school, place of worship, and recreation.
  - Strategy 10.6.2 To expand opportunities for reductions in parking requirements for commercial and residential projects designed to take advantage of transit and for mixed use developments where shared parking is feasible.
  - Strategy 10.6.3 To promote carpooling through incentive programs, such as, a "guaranteed ride home" program.
  - Strategy 10.6.4 To encourage community bike share programs.
- Objective 10.7 To improve the safety of all modes of travel.

- Strategy 10.7.1 To incorporate safety considerations for all travel modes (vehicular, pedestrian, bicycle, public transit) in the design of roadways.
- Strategy 10.7.2 To incorporate traffic calming measures in neighborhoods, near schools and universities, and other appropriate areas to discourage speeding and improve pedestrian safety.
- Strategy 10.7.3 To relocate the eastern most line of the Norfolk Southern Rail system in Harrisonburg to a location outside the City so as to remove conflicts between rail traffic and vehicular, pedestrian and bicycle traffic.





# Chapter 12 Community Infrastructure, Services, Safety & Health

## Introduction

This chapter deals with the health, safety and welfare issues to which the City must attend. Basic City services and the facilities that support them are often taken for granted by citizens, but are important to take into account when planning the City's future. Additionally, there are quasi-public and private utilities that residents rely upon. While the City may not have a hand in directly regulating these utilities, it is important that utility provision and development are complementary to planning community facilities and land use planning. The utility services discussed in this chapter include:

- *Public Water & Sewer*: The City has made large capital investments to create a safe and reliable water supply and a wastewater treatment system that are cost effective and environmentally sound.
- Solid Waste Management: The City operates a Resource Recovery Facility (RRF) where municipal solid waste is incinerated, providing energy to heat and cool portions of James Madison University. The City also has a contract with neighboring Rockingham County for use of its landfill, when needed. These efforts as well as programs to encourage recycling ensure that solid waste is handled responsibly.
- *Harrisonburg Electric Commission (HEC)*: HEC is a quasi-governmental political subdivision of the City that operates as a municipal electric provider.
- *Natural Gas Service*: Columbia Gas of Virginia, a NiSource company operates in the City to provide uninterrupted gas service to residential users.
- *Telecommunications*: The City is served by a number of providers including Verizon, NTelos, Comcast and Shentel. These providers maintain a critical infrastructure that is vital to the quality of life and economic development of the community. These systems are deployed throughout the City so that broadband, wireless, and emergency communications are met. Along with other infrastructure in the community, these facilities are deployed in a manner that maximizes customer service, while minimizing the proliferation of towers and duplication of utility poles. The City and County operate a dedicated broadband network for shared emergency communication response.
- Stormwater Management: While the City does not yet maintain a public stormwater utility, the City has made strides in the recent past to assign responsibility for maintenance of private stormwater facilities to appropriate owners in order to ensure proper operation and maintenance. The City maintains many public stormwater conveyance easements, but there are many stormwater easements that are merely reserved and not the City's responsibility.

The City's Capital Improvement Program (CIP) serves as the major financial planning tool for expenditures towards public capital facilities and equipment. It guides development and budgetary priorities for large-scale projects, which exceed funding amounts in the normal operating budget. The CIP helps to ensure that major projects are within fiscal reach for the community and helps to prioritize the most vital capital projects.

Safety and health issues are also addressed here through recommendations for new police and fire facilities and for cooperative programs with local health organizations to inform citizens of health programs and to encourage healthy lifestyles.

# **Background**

# **Water Supply**

The City of Harrisonburg strives to meet its responsibility in providing dependable and reliable water service to its citizens. In doing so, the City owns, operates, and maintains a complete water system from source to customer. Information regarding the City's current water system and plans for meeting future water demand is described in detail in the Plan Background Implementation Supplement and is summarized below.

Water Use: In 2007, at the height of development, the City treated on average a total of 6.75 million gallons per day (MGD) of which 4.61 MGD was sold to in-City customers. The water use data is based on water service to the 7,585 acres of developed land within the City. Water usage will increase as the undeveloped land within the City is built-out. Accordingly, the potential increase in water use was projected based on the build-out of the City for each water user category by using historical usage rates and maximum anticipated usage rates. Based on historical usage rates, build-out of the City could use an additional 3.35 MGD. At the maximum anticipated usage rate, the additional water usage would be 4.46 MGD. Table 12-1 lists the current totals of water usage and shows the projected water usage based on historical and maximum design rates. The projected water capacity needs range from 11.05 to 14.26 MGD for historical rates versus maximum projections, respectively.

Table 12-1: Harrisonburg Total Projected Water Capacity

		D	eveloped Lan	d	Undeveloped Land					
Category	Zoning	Developed Acreage	2007 Demand	Design Demand (2)	Undeveloped Acreage	Historical Rate	Historical Demand	Design Demand (2)	Historical Total	Design Total
		(ac.)	(mgd)	(mgd)	(ac.)	(mgd/ac.)	(mgd)	(mgd)	(mgd)	(mgd)
Res.	R-1, R-P	2,693	1.32	1.76	520	590	0.31	0.41	1.63	2.15
Com.	B-1, B-1C B-2, B-2C	1,161	1.33	1.77	394	1,787	0.70	0.94	2.03	2.71
Ind.	M-1, M-1C,	1,144	0.6	0.80	533	1,849	0.99	1.31	1.59	2.11
Inst.	B-2 (Ov), B-2C (Ov), R-2 (Ov.), R-3 (Ov)	186	0.54	0.72	14	1,901	0.03	0.04	0.57	0.75
City			0.16	0.21				0.00	0.16	0.21
Apartments	R-2, R-2C R-3, R-3C R-4, R-6, R-7	2,099	0.66	0.88	677	1,966	1.33	1.77	1.99	2.65
City Subtotal		7,585	4.61	6.13	2,138		3.35	4.46	7.95	10.59
Rural			0.53	0.84			0.01	0.01	0.64	0.85
Rockingham County			0.17	0.23			0.83	1.10	1.00	1.33
Backwash (6)			0.17	0.17			0.11	0.15	0.28	0.32
Waterloss			1.17	1.17			0	0.00	1.17	1.17
Other Subtotal			2.14	2.40			0.95	1.26	3.09	3.67
Grand Total			6.75	8.54			4.30	5.72	11.05	14.26

Source: Harrisonburg Water System Capacity Evaluation, Public Utilities, 2007.

#### **NOTES:**

- (1) Acreage data is 2007
- (2) VDH requires treatment and supply facilities to accommodate the peak day demand; typically accepted and validated in Harrisonburg observations at 133 percent (storage, water treatment plant, backwash, demand peak, etc.)
- (3) Undeveloped City Non-Industrial assumes 75 percent maximum density and VDH planning criteria
- (4) Undeveloped City Industrial transitions to Commercial; assumes 75 percent maximum density
- (5) Assume County Contract will expand to 1.0 MGD
- (6) Backwash volume = 2.5 percent of water volume treated

Sources of Water: Currently, two sources are available for supplying the City with potable water. These sources consist of surface and/or impoundment withdrawals from the North River and from Rawley Springs. A major project is now underway to upgrade the existing raw water supply line from Rawley Springs and to construct a new raw water supply line from the South Fork of the Shenandoah River to the City's Water Treatment Plant (WTP). These projects, once completed, will significantly enhance the City's water supply. The current available capacity of the City's water supply sources (excluding Silver Lake, a limited resource for only emergency use) is approximately 11.6 MGD. Current available source capacity, without the availability of Switzer Dam during extended drought conditions, is approximately 6.9 MGD. This is below the City's current design demand of 8.54 MGD.

After a new Rawley Springs water supply line is constructed and the Shenandoah River source is brought online, the future long term available capacity of the City's water supply sources—excluding

Silver Lake—will be 15.0 MGD through a variety of source options. With justification of demand under permit review, the Shenandoah River could possibly provide for growth in excess of 15.0 MGD.

<u>Treatment</u>: Generally, the City's water supply is good quality; treated water meets or exceeds State regulatory drinking water standards. The current capacity of the City's Water Treatment Plant (WTP) is 15.0 MGD. Although the treatment facility is capable of treating 15.0 MGD, its rating remains at 10.0 MGD until future water supplies become available.

Table 12-2 provides a summary of the City's major water system components and a comparison with current and future system demands.

**Table 12-2: Harrisonburg Water System Summary** 

Source	Current Status (MGD)	Future Status (MGD)
Water Use (demand)	$8.54^{(1)}$	14.26(2)
Treatment Capacity <sup>(3)</sup>	10.0	15.0
Source Capacity (normal)	10.2	15.0
Source Capacity (drought)	6.7	14.9

## NOTES:

- (1) 2007 design demand.
- (2) Projected average water use. Projected water use using historical usage rates is 11.05 MGD. Projected water use design demand is 14.26 MGD.
- (3) Although the current and future rated capacities of the WTP are 10.00 MGD and 15.00 MGD, respectively, the lower capacities listed above have been added to reflect the consistent average daily output that is expected. The added capacity afforded by the higher figures is used to supply daily peak demands when required and to supplement storage in the system.

As shown above, the City's current water system is capable of meeting or exceeding current system demands. Additionally, once construction of both the Shenandoah River raw water supply line and the replacement of the Rawley Springs raw water supply line are completed, the City's improved water system will be capable of meeting or exceeding future system demands.

Storage and Distribution System: Currently, the City has a total treated water storage capacity of 23.16 million gallons (MG). This storage capacity is provided by nine storage facilities spread across 10 separate pressure zones (six zones with storage and four with no storage). The City owns, operates, and maintains nearly 287 miles of water distribution pipes ranging in size from 1-inch in diameter to 18-inch in diameter. Construction projects involving both expansions and replacements are regularly undertaken to improve water service to City customers. The Department of Public Utilities identifies three areas of concern in the current storage and distribution system:

- The need for an additional storage and booster pump station in the 2<sup>nd</sup> High Pressure Zone
- The need to upgrade the booster pump station and the storage tank in the Parkview Pressure Zone
- The need to upgrade the transmission pipe in the Dale Enterprise Pressure Zone west of the City.

Most recently, the City has completed the construction of three water storage facilities in the Low zones totaling 18.3 million gallons of storage.

#### **Wastewater Treatment**

A major responsibility of the City is to provide a dependable and reliable wastewater collection, conveyance, and treatment system. Wastewater treatment for the City is provided by the Harrisonburg-Rockingham Regional Sewer Authority (HRRSA).

<u>Sewer Use</u>: In 2007, City sewer use averaged a total of 7.22 million gallons per day (MGD). Records from the last recent non-drought or "wet" year, which occurred in 2004, indicate that the City discharged 8.30 MGD of sewage flow to the HRRSA facility. Predictably, non-drought or "wet" years typically result in increased discharges to the treatment plant primarily due to the impacts of inflow and infiltration (I/I). Historically, the City has incurred from 0.40 MGD to 4.10 MGD of I/I into its collection system.

The current sewer use data is based on sewer service to the 7,585 acres of developed land within the City. Additional sewer use will occur in the undeveloped land as build-out of this land continues. Based upon the historical sewer usage rate, the additional usage at build-out is projected to be 7.60 MGD. The maximum projected design demand is 11.70 MGD. Table 12-3 provides a summary of the City's sewer system demand.

**Table 12-3: Harrisonburg Sewer System Demand Summary** 

Category	2007	Projected	Design
	Demand	Demand	Demand
	(mgd)	(mgd)	(mgd)
Non-Industrial (1)	2.94	2.36	5.30
Industrial (2)	1.21	0.98	2.19
Rural	0.04	0.01	0.05
Rockingham County (3)	0.06	0.00	0.06
Subtotal	4.26	3.35	7.60
Infiltration and Inflow			
(I&I)(4)	2.96	0.00	4.10
Grand Total	7.22	3.35	11.70

Source: Harrisonburg Sewer System Capacity Evaluation, Director of Public Utilities, 2007 data. **Notes:** 

- (1) Undeveloped City Non-Industrial assumes 75 percent maximum density and VDH planning criteria
- (2) Undeveloped City Industrial transitions to Commercial; assumes 75 percent maximum density
- (3) New County contract does not target potential County market
- (4) Harrisonburg 10 year I&I trend shown below; planning recognizes maximum recorded annual I&I.

<u>Treatment</u>: All sewage from customers within the City who are connected to the public wastewater collection system is conveyed to the HRRSA treatment facility in Mount Crawford, Virginia. This modern facility is a technologically advanced wastewater treatment plant (WWTP) that was recently improved to include biological nutrient removal (BNR) for meeting the stringent requirements of the Chesapeake Bay Preservation Act.

The HRRSA WWTP has a current capacity of 22.0 MGD and treats sewage from the City of Harrisonburg, portions of Rockingham County, and the Towns of Bridgewater, Mount Crawford, and Dayton. Of the current 22.0 MGD capacity, 12.8 MGD are specifically allocated to the City. This capacity exceeds the City's projected design demand of 11.7 MGD.

<u>Collection</u>: Currently, the City owns, operates, and maintains approximately 203 miles of wastewater collection pipes ranging in size from 3-inch in diameter to 36-inch in diameter. Construction projects involving both expansions and replacements are regularly undertaken to improve sanitary sewer service to City customers. To aid in maintaining its wastewater collection system, the City employs an aggressive inflow and infiltration (I/I) abatement program. City forces regularly inspect the sewers, identify problems, and implement corrective actions on a subsection by subsection basis. As a proactive measure for pending regulations involving sanitary sewer Capacity, Management, Operation and Maintenance (CMOM), the City has recently undertaken a capacity evaluation of its primary interceptors. Results from the evaluation will be used to outline future Capital Improvement Plan (CIP) projects for upgrading system capacities, where necessary.

## **Stormwater Management**

System Description: Approximately two-thirds of the storm water runoff from the City discharges into the Blacks Run watershed. The Sunset Heights Branch watershed receives storm water runoff from the western portion of the City and a small portion of the northwest section of the City drains into the Smith Creek watershed. Both the Sunset Heights Branch and Blacks Run watersheds discharge into Cooks Creek in southern Rockingham County. A loosely connected network of stormwater pipes, culverts, inlets, and drainage swales are located throughout the City for providing drainage to lowlying and flood prone areas. According to a 1998 Storm Water Action Plan prepared for the City, the City has a long history of storm water related problems. That plan identified more than 30 different stormwater problem areas scattered throughout the City.

Existing Policies and Programs: The City's Department of Planning and Community Development is responsible for review, approval, and enforcement of all new storm drainage and stormwater management designs associated with new developments. The policy and program tools the City uses in this endeavor consist of specific requirements set forth in the State's Erosion and Sediment (E&S) Control Handbook, the State's Stormwater Management Handbook, the City's Design and Construction Standards Manual (DCSM), and the City's Zoning Ordinances with respect to flood plain issues. The City's Department of Public Works is responsible for the physical aspects of operating and maintaining the City's existing storm water system. Principally, this effort involves the routine inspection, cleaning, and maintenance associated with pipes, culverts, inlets, and selected drainage swales as well as making any structural repairs, modifications, or improvements that may be required. In addition, the Parks & Recreation Department staffs a Stream Health Coordinator, who partners with Public Works and Planning and Community Development to develop and implement best management practices in maintaining Blacks Run and its tributaries. A significant challenge facing the City is the number of drainage easements that have been reserved throughout the City over the years under private ownership. When easements and facilities are not properly maintained, this creates problems for neighboring or downstream properties and in some cases, public facilities.

The City of Harrisonburg manages a Stormwater Management Program under the Virginia Pollution Discharge Elimination System (VPDES) General Permit for Stormwater Discharges: Small MS4s (Phase II). The Permit requires compliance with six minimum control measures:

- 1. Public Education and Outreach on Stormwater Impacts
- 2. Public Involvement/Participation
- 3. Illicit Discharge Detection and Elimination
- 4. Construction Site Stormwater Runoff Control
- 5. Post Construction Stormwater Management in New Development and Redevelopment
- 6. Pollution Prevention/Good Housekeeping for Municipal Operations.

This program is managed by both the Department of Public Works and the Department of Planning and Community Development.

## **Local Government Facilities**

It is vital for the City to maintain its facilities as effectively and efficiently as possible. This requires periodic budgetary reviews for renovations, major capital repairs, expansion and new facilities. Many of these items can be planned well in advance and these are vetted through the CIP process, but maintenance of existing structures requires a rapid and quick response when unexpected needs arise such as a premature equipment failure or structural failure. Many specific community facilities are discussed in Chapter 7 (Education), Chapter 10 (Parks & Recreation), and Chapter 11 (Transportation). While there are numerous priorities indicated in the most recently adopted CIP inclusive of all city departments, the longer-term projects prioritized include:

- Completing construction of a 30" raw water supply line from the Shenandoah River near McGaheysville to the City's Water Treatment Plant on the west side of the City;
- Continuing/completing the multimodal Erickson Avenue-Stone Spring Road transportation facility;
- Expansion of the Rockingham-Harrisonburg Regional Jail Facility; and the
- Expanded Transit and Administration Facility.

## **Solid Waste Management**

The Department of Public Works handles solid waste management for the City. The City's integrated program of collection, recycling, resource recovery, landfilling and education is described in detail in the *City of Harrisonburg Solid Waste Management Plan* from 2007. In 2008, to help defray the cost of solid waste collection, disposal, and recycling, the City adopted a Solid Waste Management fee that applies to all residents and commercial businesses in the City.

<u>Collection</u>: Harrisonburg operates a collection program for residential and for some commercial uses within the city. Trash collection is available to all single family dwelling units. The City does not have equipment to handle dumpsters; therefore service to businesses and apartment complexes is limited; however recycling services are available to all City customers, further discussed in the next section of this chapter. This requires businesses and apartment complexes to develop and submit their own Solid Waste Management Program Plan to the Department of Public Works. The Solid Waste Management Plan estimates a per capita solid waste generation rate of 4.3 pounds per day, which excludes industrial waste and construction debris.

Recycling: The City offers a curbside recycling program, participation in which is voluntary. The City estimates that 75 percent of households have requested and received recycling bins. To encourage participation, the City allows participants to co-mingle recyclables. The City sorts and recycles these household materials as well as materials collected from participating businesses, institutions, and industries. The City is currently meeting the State mandated recycling rate of 25 percent. The City's waste generation rate is 4.3 pounds per capita per day, while the daily per capita disposal rate is 3.2 pounds.

<u>Resource Recovery and Incineration</u>: Harrisonburg operates a 200-ton design capacity resource recovery facility on a 24-hour, year round basis located on Driver Drive on the fringe of the JMU campus. This facility burns mostly commercial and residential solid waste from both the City and County to produce steam. The steam is used in several ways including providing JMU's CISAT

campus a source for heating, while in the summer the steam powers chillers that provide cooling. The steam is also available to power generators to produce electricity that may be used by HEC during periods of peak demand to reduce grid overload.

The resource recovery plant was built in 1982 and rebuilt in 2003. The new plant has doubled the design capacity to 200 tons, and meets federal Environmental Protection Agency's Clean Air Act and the Virginia Department of Environmental Quality's (DEQ) Title V regulations.

A major reason for operating the resource recovery plant is to reduce the community impact to the landfill and to furnish alternative energy to JMU and HEC. One hundred tons of waste is converted to approximately 30 tons of ash, significantly reducing the amount of solid waste deposited in the landfill and lengthening the landfill's life span. The City has plans to explore metal removal and dewatering of ash to further reduce impacts to the landfill.

<u>Disposal in the Sanitary Landfill</u>: The last cell of the City's landfill located on Ramblewood Road was closed in the late 1990s. Although a closed facility, the City realizes extensive long-term maintenance costs on an annual basis to remain in compliance with the approved Department of Environmental Quality closure plan. The City conducts a comprehensive set of groundwater monitoring to determine whether the former landfill is a source of contamination from the solid waste. Testing will continue for at least another 20 years. If it is determined that any contamination has occurred, a corrective action plan will be developed and implemented for the closed landfill.

This landfill has three major cells that date back to the 1950s. The Landfill was capped and a portion converted to recreational use as ball fields. The site is currently operated by the Departments of Public Works and Parks & Recreation. As a result of the landfill closure, the City examined other options available to municipal solid waste disposal. The City was in the process of planning for a major rebuild and expansion of the Resource Recovery Facility (RRF) and an innovative partnership between the City and James Madison University was developed where the RRF would provide steam power to provide heating and cooling for the planned development of the College for Integrated Sciences and Technology (CISAT) on the east side of Interstate 81. Simultaneously, the City entered into contract with Rockingham County for use of its landfill. The agreement stipulates that the City agrees to pay a per capital share of capital improvement costs at the landfill, located on Grassy Creek Road.

The City continues to explore source reduction, reuse, and recycling of all solid waste to reduce contributions to the sanitary landfill and to provide a cleaner, more efficient waste stream to fuel the resource recovery facility. Examples might include a citywide composting program, and a materials recovery facility (MRF) to manage the City's solid waste disposal goals.

<u>Education</u>: The City promotes source reduction, reuse, and recycling of solid waste to the general public and in the schools. Citizens can learn more about the City's recycling center and resource recovery facility by scheduling tours with the Department of Public Works or participating in the Citizen Academy. Brochures and flyers are made available in City buildings and through a number of businesses. The Department of Public Works offers programs in the schools to discourage littering and to promote recycling.

In 2008, the City opened a Household Hazardous Collection facility on Beery Road. The City also coordinates an Adopt-a-Street Program and organizes the annual Blacks Run/Downtown Clean-Up Day. As of January 2001, various citizen groups have adopted approximately 50 miles of City streets annually for regular litter pick-up.

# **Harrisonburg Electric Commission (HEC)**

HEC purchases power for resale to its 20,000 customers from the Dominion Virginia Power Company at four separate metering points throughout the City. The Commission operates under Section 8 of the City Code and accordingly has five, City Council appointed, Commissioners.

The City has had a municipal electric system since 1905. Steam, waterpower and diesel were the original means of electric generation in the City. By the mid-1950s, the City's electric system had become run down and antiquated. Virginia Electric & Power Company (VEPCO) offered to purchase the electric system from the City and purchase a 30 year franchise for just over \$2 million. The sale went to referendum, but did not pass. It was believed that the operation of the system by an independent, nonpolitical commission would provide many advantages including more businesslike management, better long-range planning, and the elimination of excessive draining of revenues from the system. The Harrisonburg City Council created the Harrisonburg Electric Commission in October 1956. It was quickly evident that the electric system needed extensive upgrades and the Commission began work with modernizing the system throughout Harrisonburg, revising electric rates, evaluating inventory, testing meters and developing more effective public relations and personnel programs.

HEC is in the process of planning for continued growth in the City. As a distributor of power, it is of utmost importance that electric needs are met on demand. Future substations are being considered to ensure that adequate capacity is available to facilitate serving future electric loads.

# **Natural Gas Service**

The City is served by Columbia Gas of Virginia, a subsidiary of NiSource Company. NiSource owns and operates approximately 15,000 miles of strategically located natural gas pipelines, integrated with one of the largest underground storage systems in North America. The company headquarters is located in Houston, Texas.

## **Telecommunications**

The City is served by a number of telecommunications providers, including, Verizon, NTelos, Shentel and Comcast. These utilities commonly have pole attachment agreements to utilize HEC's poles for utility deployment.

In January 1996, the City Code was amended and gave HEC the authority to provide fiber optic services within the City. Approximately 17 miles of fiber were installed and the system was operational beginning April 1, 1997. The systems use today is for the City's internal use; providing network connections for Harrisonburg City Schools and local government offices.

## **Public Safety**

<u>Police Department</u>: The following mission statement captures the overall goals and operational objectives of the Harrisonburg Police Department very effectively:

The mission is to "preserve public peace and order, to protect life and property and to enforce the laws of the United States, Virginia and the City of Harrisonburg."

The Police Department performs the following functions:

- Provides police presence and availability throughout the City on a 24-hour basis
- Responds to reports of criminal events or requests for police service in a timely manner
- Investigates criminal events or potential criminal events by identifying, apprehending and arresting suspects, and then providing evidence and testimony in court
- Maintains responsive contact and communications with victims of crime
- Ensures the orderly and safe flow of traffic and investigates motor vehicle crashes
- Encourages community compliance with laws and participation in public safety through crime prevention and education programs, community relations activities, and in setting examples for the public to follow
- Resolves public or domestic disputes to avoid escalation to violence
- Provides specialized police presence in the public parks and recreation areas
- Develops and maintains pro-active programs directed at crime prevention
- Provides personal services and programs directed at crime prevention among the youth
- Provides a formalized complaint process in order that citizens and police can work together effectively
- Provides community services to the public that aid in accomplishing the police mission

The Department now has four police facilities:

- Public Safety building (Harrison Plaza) at 101 North Main Street
- Three unmanned satellite substations:
  - o n Mosby Road
  - o at the Lucy F. Simms Continuing Education Center
  - o at Valley Mall

The City pays 50 percent of the cost of administering the courts and the Regional Jail, which is managed by the Sheriff. The City Police Department has a close working relationship with the Sheriff's office. In addition to sharing the courts and jail, the City allows the County to use our firing range, located on Ramblewood Road, within the City limits.

The Police Department is now headquartered in the ground, 1<sup>st</sup>, and 2<sup>nd</sup> floors of the Public Safety building. A small portion of the 4<sup>th</sup> floor is used for property storage. When the City schools move out of the 4<sup>th</sup> floor, the Department will need some of this area to expand for increased staffing levels, evidence retention, and other property needs as necessary.

Adequate parking is already a concern at the Public Safety Building. A parking deck, on the west side of the building, would provide more access for employees and the public while enhancing the safety of our fleet of vehicles. The City has allowed test drilling in the area and is pursuing funding for the project.

Fire Department: The Harrisonburg Fire Department's formal mission statement is as follows:

"The mission of the Harrisonburg Fire Department is to serve the public in protecting them from loss of life and damage to property through Fire Prevention and Fire Suppression activities, and to perform such other humanitarian actions as may be necessary to serve our citizens."

The primary functions of this department's mission are:

- To prevent fire through fair and equal Code Enforcement
- To save lives and suppress fire through the most efficient combat tactics
- To be fiscally accountable to the citizens of Harrisonburg
- To provide economical and dependable service to our citizens
- To provide for the professional development and physical fitness of all personnel
- To serve as the City's first line of defense against any type of natural or manmade disaster

# Existing Facilities and Services

The Fire Department has four Fire Stations and two other support facilities:

- Station 1 at 80 Maryland Avenue (2 companies)
- Station 2 at 380 Pleasant Valley Road
- Station 3 at 299 Lucy Drive
- Station 4 at 210 East Rock Street
- Administration offices at 101 North Main Street (Harrison Plaza)
- Training Center located at the City shop on Mosby Road

Typical Fire Department response times are 4 to 4½ minutes, although the Park View area has longer response times (5½ to 6½ minutes). A new Fire Station (#5) is planned in the Parkview area. A site under consideration is the former VDOT facility site at Waterman/Chicago Avenues.

Rescue Squad: The Rescue Squad, an all-volunteer organization, is an independent, non-profit corporation that is recognized as an integral part of the official safety program of the City for the purposes of saving lives, administering first aid and teaching safety. The Rescue Squad and the City entered into an arrangement in which the City provided \$1.6 million of funding for the construction of a new Rescue Squad building on a site purchased by the Rescue Squad on Reservoir Street. The squad moved into this new facility in September 2003.

<u>Harrisonburg Rockingham Emergency Communications Center (HRECC)</u>: The Harrisonburg-Rockingham Emergency Communications Center is a consolidated center created by an Exercise of Joint Powers by the City of Harrisonburg and County of Rockingham.

"The Mission of the Harrisonburg-Rockingham Emergency Communications Center shall be to efficiently and professionally receive emergency 9-1-1 calls and dispatch emergency services to protect the citizens and visitors of Harrisonburg and Rockingham County, VA."

The primary functions of the HRECC are:

- Efficiently process emergency calls within one minute of reception;
- Provide high quality communications through state-of the-art technology;
- Constantly seek out ways to improve the quality of services provided to the community;
- Facilitate the development of highly trained, proficient, dedicated and self-motivated personnel.

## **Existing Facilities and Services**

• The Communications Center and joint Governmental Emergency Operations Center is located on the fifth floor of the City of Harrisonburg's Public Safety Building, 101 N. Main Street, Harrisonburg, Virginia.

- The HRECC owns and manages eleven radio sites in various locations in the City of Harrisonburg and County of Rockingham that affords two-way radio communications among public safety responders, general government employees and the HRECC.
- The HRECC owns/manages one (of five) Virginia Communications Caches. The Communications Cache holds over five-hundred radios, portable repeaters and deployable trailer-towers that can be dispatched to significant local, state and national incidents requiring additional radio assets and interoperable radio communications.

# Community Infrastructure Services, Safety and Health Goals, Objectives and Strategies

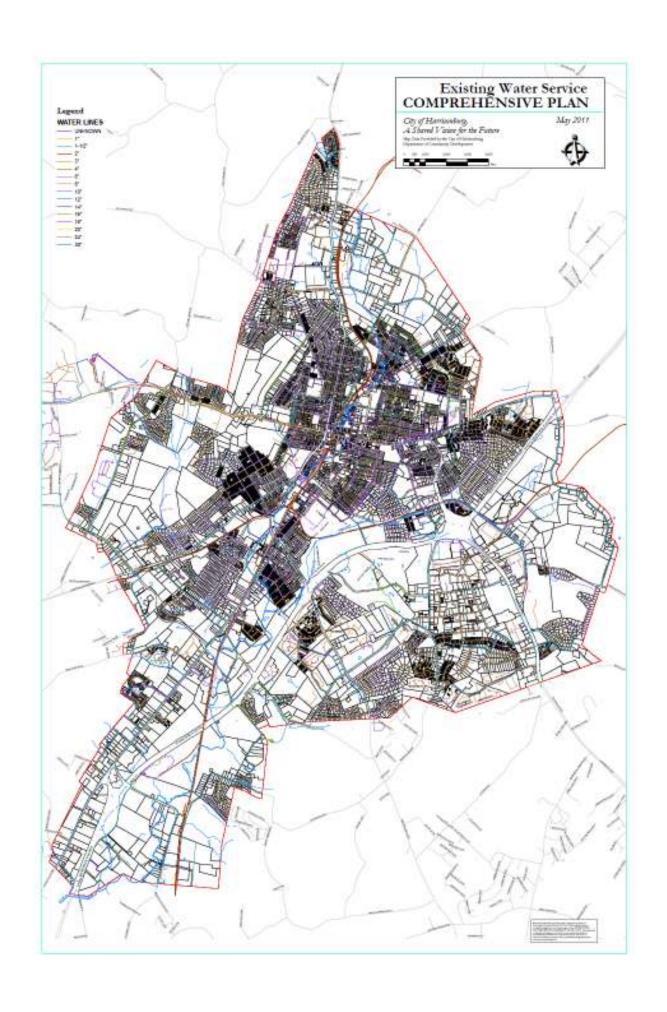
- Goal 11. To support a vital city with community facilities, infrastructure, and services, which are efficient, cost-effective and conserving of resources.
  - Objective 11.1 To continue to provide high quality public water service.
    - Strategy 11.1.1 To construct needed water supply, treatment, storage, and pressure improvements, including:
      - Upgrade of raw water supply and treatment capacity to 15.0 MGD
      - Additional storage and booster pump station in the 2<sup>nd</sup> High Pressure Zone
      - Storage tank and upgrade of booster pump station in the Parkview Pressure Zone
      - Upgrade of transmission pipe in the Dale Enterprise Pressure Zone
    - Strategy 11.1.2 To develop an asset retirement plan for all assets with purpose to replace assets at the end of their useful life. To also continue the development of operation and maintenance programs that emphasize repair, protection, ISO fire flow delivery, system reliability, water quality, and water loss reduction.
  - Objective 11.2 To continue to provide dependable, environmentally sound, sanitary sewer service.
    - Strategy 11.2.1 To continue the City's wastewater system repair and maintenance programs that emphasize repair, preventive action, and reliability.
    - Strategy 11.2.2 To continue the City's abatement program addressing infiltration and inflow to the wastewater collection system.
    - Strategy 11.2.3 To continue the City's interceptor improvement program.

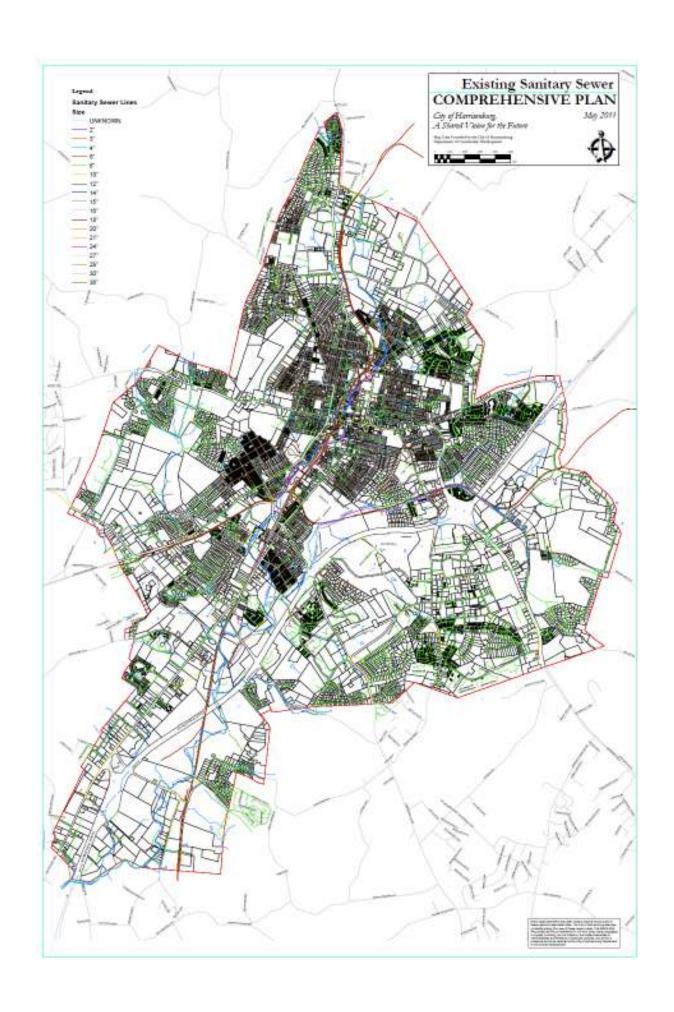
      Strategy 11.2.4 To continue the support of the Harrisonburg-Rockingham Regional Sewer Authority to meet voluntary and other goals for nutrient reduction to the Chesapeake Bay.
  - Objective 11.3 To continue to manage the Small MS4 (Phase II) stormwater management program improvements, as required by the Environmental Protection Agency and the Virginia Department of Conservation & Recreation, in order to improve the quality of stormwater runoff.

- Strategy 11.3.1 To continue a public education and outreach program regarding the impacts of storm water discharges on streams.
- Strategy 11.3.2 To encourage citizen participation and involvement in all aspects of the City's storm water management program.
- Strategy 11.3.3 To work with property owners to eliminate illicit discharges once identified.
- Strategy 11.3.4 To continue enforcement of the City's erosion and sediment control program.
- Strategy 11.3.5 To enforce the requirements for and maintenance of storm water quality improvements in new and redevelopment construction.
- Strategy 11.3.6 To maintain and improve programs to prevent pollution and practice good housekeeping in municipal operations.
- Strategy 11.3.7 To manage stormwater following Best Management Practices and innovative non-point source pollution to streams and tributaries.
- Strategy 11.3.8 To develop a regional stormwater management approach through cooperation with James Madison University and Rockingham County.
- Strategy 11.3.9 To adopt stormwater management techniques, such as vegetative swales and urban forestry techniques that are both effective control measures and aesthetically pleasing.
- Strategy 11.3.10 To consider developing and implementing a Stormwater Utility Fee to fund stormwater controls, maintain existing public facilities, and encourage the use of pervious surfacing.
- Strategy 11.3.11 To consider developing a Low Impact Development (LID) design manual, and upon completion, review and amend City ordinances as needed to promote LID techniques.
- Strategy 11.3.12 To consider developing an incentive based program for development projects certified in the LEED program.
- Strategy 11.3.13 To explore the feasibility of the City's eligibility to participate in the Community Rating System administered by FEMA for the potential benefit of reducing flood hazard insurance rates.
- Objective 11.4 To reduce sediment loading into Blacks Run and its tributaries
  - Strategy 11.4.1 To continue participating in the Soil and Water Conservation Board's TMDL Committee and implement measures as TMDL plans are adopted.
  - Strategy 11.4.2 To seek grant funding for projects to implement TMDL goals.
- Objective 11.5 To continue an integrated approach for handling and disposal of solid waste.
  - Strategy 11.5.1 To promote recycling through:
    - Continued and expanded public education campaigns
    - Adoption of regulations requiring businesses to sort their recyclable solid waste and make it available for collection
    - Develop an environmentally preferable purchasing policy for government operations to encourage purchases of items with recycled content, environmentally friendly items when economically feasible.
    - Continue to provide a household hazardous waste day on a frequent basis as well as other special collections.

- Continue to promote electronic recycling in conjunction with residents and local businesses.
- Strategy 11.5.2 To study the incoming solid waste stream in more detail so as to develop cost-effective waste collection and disposal programs.
- Strategy 11.5.3 To adopt reduction, reuse and recycling reporting legislation.
- Strategy 11.5.4 To further reduce contributions and impacts to sanitary landfills.
- Strategy 11.5.5 To document and maintain archival records of all known solid waste disposal facilities in the City.
- Strategy 11.5.6 To promote food waste diversion and composting in the community.
- Strategy 11.5.7 To promote business donations of usable but non-salable food items to local food pantries.
- Strategy 11.5.8 To investigate and develop options for a yard waste management facility in the City or in partnership with Rockingham County.
- Strategy 11.5.9 To research and implement in broad context a "pay-as-you-throw" program for refuse disposal where fees are based on the actual amount of trash generated.
- Objective 11.6 To involve citizens and businesses in the conservation of resources to assist in maintaining cost-effective public service delivery.
  - Strategy 11.6.1 To review the potential for voluntary citizen and business involvement in public service delivery in such areas as recycling, water conservation, stormwater pollution reduction, neighborhood watch, rescue squad participation, emergency preparedness.
  - Strategy 11.6.2 To develop programs to recruit and manage citizen and business volunteers in community service.
- Objective 11.7 To monitor the effectiveness and efficiency of service delivery so that changes can be made as needed.
  - Strategy 11.7.1 To perform periodic studies of the adequacy, quality, and efficiency of City service delivery, including potential needs for: additional water supply sources, water and wastewater treatment expansions, new or expanded landfill space, expanded recycling options, and resource recovery plant efficiency.
- Goal 12. To ensure the provision of utility services to residents, businesses and customers.
  - Objective 12.1 To support the development and maintenance of a highly reliable, efficient, and environmentally sound electrical infrastructure.
    - Strategy 12.1.1 To require that new installations of electric service in developments be constructed underground.
    - Strategy 12.1.2 To support programs to increase energy efficiency within the City of Harrisonburg.
    - Strategy 12.1.3 To provide cost-effective, energy-efficient street lighting appropriate to the use and character of the area.

- Objective 12.2. To support the development and expansion of natural gas service that is reliable, cost effective, properly maintained and responsive to customer needs.
  - Strategy 12.2.1 To encourage the expansion of gas facilities to all new private developments.
  - Strategy 12.2.2. To encourage service delivery options to the Harrisonburg market as current infrastructure is insufficient for uninterrupted gas delivery for all users.
- Objective 12.1 To plan for the expansion and upgrade of public and private utilities, during maintenance and new infrastructure projects.
- Goal 13. To ensure the public safety and encourage the provision of excellent health services for all people.
  - Objective 13.1 To coordinate and plan for increased emergency preparedness in the face of new national threats.
    - Strategy 13.1.1 In cooperation with federal, state, other local law enforcement and emergency preparedness agencies, and Rockingham Memorial Hospital, provide for continual maintenance and updating of the City's local Emergency Operations Plan.
  - Objective 13.2 To assist local health organizations and groups in efforts to achieve the Healthy People 2010 Goals, a program of the Federal Department of Health and Human Services.
    - Strategy 13.2.1 To cooperate with health providers and groups in hosting events to promote healthy life-styles and provide information about community health services (e.g., health fairs, fitness walks and runs, healthy lifestyles promotional campaigns, etc.)
  - Objective 13.3 To support the City police and fire departments and the volunteer rescue squad with well located and designed facilities that support their missions.
    - Strategy 13.3.1 To provide a new police substation in the northwest quadrant of the City.
    - Strategy 13.3.2 To provide a new fire station in the northwest quadrant of the City.
    - Strategy 13.3.3 To provide a new police substation in the southeast quadrant of the City.





# **Chapter 13 Economic Development & Tourism**

## Introduction

The City of Harrisonburg expresses its concern for the economic health of the community through its economic development and tourism programs. The promotion of business and industrial investment along with jobs retention and creation supports the City's tax base, increases property values, provides work opportunities for the citizens, helps reduce poverty, and moves the City toward economic stability and self-sufficiency. This chapter focuses on Harrisonburg's economic health and the efforts to maintain and enhance it through economic development and tourism promotion.

# **Background**

## **Economic Conditions**

<u>Labor</u>: Harrisonburg has a diverse employment base. The City is primarily supported by non-agricultural employment in the form of manufacturing, trade, tourism, retail trade, and professional services. Consistent with national trends, the City saw substantial growth in Services and Retail Trade employment between 1998 and 2008. The largest growth (7.3 percent) was in the Transportation, Communications, and Utilities sector, which includes establishments in transportation, communication, gas, and electric services. According to the Virginia Employment Commission (VEC) projections for the Northwest Region of Virginia, this industry is projected to be among the fastest growing, along with Retail Trade, Services, and Construction, through 2008.

From 1998 to 2008, the City enjoyed substantial growth in manufacturing employment (6.8 percent), whereas most areas in the country, and particularly on the East Coast, suffered major losses in manufacturing. With the exception of the 2.3 percent decrease in federal government employment, the largest decrease in the City was in agriculture. It is important to know, however, this category is comprised of farming, ranching, forestry, and fishing establishments, and that many of the City's agriculture-related jobs (those in food processing, equipment manufacturing, feed production) are classified as manufacturing employment.

The City's increase of unemployment, up to 6.6 percent in 2009, can largely be attributed to the general economic slowdown, and should decrease over time. Table 13-1 shows Harrisonburg's unemployment rate compared to that of the Rockingham County, the Central Shenandoah Planning District, and Virginia.

Table 13-1: Labor and Unemployment Levels in 1999 and 2009

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	Virginia	CSPDC	Rockingham County	Harrisonburg
1999				
Total Labor Force	3,536,409	128,921	37,430	18,628
Number of Unemployed	94,820	2,406	460	232
Number of Workers Employed	3,441,589	126,515	36,970	18,394
Unemployment Rate	2.7%	1.9%	1.2%	1.2%
2009				
Total Labor Force	4,173,123	147,318	42,586	23,157
Number of Unemployed	277,562	9,853	2,463	1,530
Number of Workers Employed	3,896,161	137,465	40,123	21,627
Unemployment Rate	6.7%	6.7%	5.8%	6.6%

Source: Central Shenandoah Planning District Commission, Economics Research Associates.

<u>Income Trends</u>: The City's 2010 average weekly wage (\$653) was well under the state average (\$929) across all industries. However, the City's wage figures were about the same as those for the Central Shenandoah Planning District (\$643) and those in Rockingham County (\$655). In 2010, the highest paid trades in the City are Information (\$992), Finance, Insurance, and Real Estate (\$807), Manufacturing (\$774), Government (\$706), and Construction (\$698). The sectors with the lowest average weekly wages were Transportation and Warehousing (\$585), Agriculture, Forestry, and Fishing (\$556), and Trade (\$523).

Comparing the median Adjusted Gross Income (AGI) in Harrisonburg to that of Virginia and Rockingham County, the 2002-2007 trend shows increases in the City, County, and State medians of 26, 26, and 25 percent, respectively. This trend shows a consistent gap between Harrisonburg and Virginia median AGIs, where the State is 30 percent higher. The gap between Harrisonburg and Rockingham County median AGIs also remained fairly consistent. In 2007, Rockingham County had an AGI of 1.7 percent higher than Harrisonburg's.

Table 13-2: Income Trends, 2002 and 2007

Table 13-2. Theome Trends, 2002 and 2007				
	Virginia	CSPDC	Rockingham County	Harrisonburg
2002				
Average Weekly Wage	\$700	\$522	\$527	\$507
Median Adjusted Gross Income	\$57,924	N/A	\$45,123	\$44,447
2007				
Average Weekly Wage	\$859	\$598	\$605	\$596
Median Adjusted Gross Income	\$72,637	N/A	\$56,790	\$55,823

Source: Central Shenandoah PDC, Economics Research Associates.

Business Investment: Harrisonburg's active manufacturing businesses and their products are listed in Table 13-3. Note that this list does not include as many poultry processing industries as in previous years. Discussions with the Shenandoah Valley Partnership indicated that recent layoffs and business closures in the local poultry industry are due to a number of factors. Closures of companies like Pilgrim's Pride and Shenandoah Manufacturing are primarily due to buy-outs of small, family-owned businesses by large corporations and are part of a national consolidation trend in the industry. The Virginia poultry industry has also suffered significant setbacks due to an attack of avian flu in 2002.

The economic impact of the illness is estimated at \$130 million in cumulative losses to Virginia businesses. Regional, local, and industry leaders are monitoring these trends very closely and are looking for all available technological options to help safeguard the industry.

Table 13-3: Manufacturing Businesses and Products in Harrisonburg, 2009

Business Business	Products		
R.R. Donnelley	Adhesive-Bond Soft Cover Books		
Montebello Packaging	Aluminum & Plastic tubing		
Cargill, Inc.	Poultry Feeds		
Christian Light Publications, Inc.	Book Publishing		
Comsonics, Inc.	Cable TV Equipment		
Daniel's	Printing & Advertising		
Eddie Edwards Signs, Inc.	Sign Production		
Excel Steel Works, Inc.	Sheet Metal		
Frazier Quarry, Inc.	Crushed Stone		
Friendship Industries, Inc.	Packaging & Mailing Services		
Georges, Inc.	Poultry Processing		
Glass & Metals, LLC	Storefronts		
Graham Packaging	Plastic Bottles		
IntraPac	Tin Tubes		
Reddy Ice	Ice Manufacturing		
Rockingham Co-Op Farm Bureau	Prepared Feeds		
Southern States Cooperative, Inc.	Prepared Feeds		
Superior Concrete, Inc.	Ready-Mix Concrete		
Suter's Handcrafted Furniture	Handcrafted Furniture		
Tyson Foods, Inc.	Poultry Processing		
Valley Building Supplies	Precast Concrete & Building Components		
Walker Manufacturing, Company	Exhaust Systems		

<u>New Investment</u>: Table 13-4 shows recent "success stories" in Harrisonburg economic development, while Table 13-5 illustrates companies who have invested in the Harrisonburg Downtown Technology Zone.

Table 13-4: Investment Activity, 2006 – 2009, Harrisonburg

	Investment	Employment	New or Expansion
	Investment	Employment	New of Expansion
2009			
Atlantic Systems Group	\$0	10	Expansion
Rosetta Stone	\$500,000	100	Expansion
Shenandoah Sustainable Technologies, LLC	\$600,000	72	Expansion
Tyson Foods Inc.	\$3,500,00	130	Expansion
2008			
Montebello Packaging	\$4,000,000	10	New
Tactical & Survival Specialties, Inc	\$ 100,000	21	Expansion
2007			
Ariake USA Inc	\$18,000,000	25	Expansion
Blue Ridge Data Center	\$ 115,000,000	25	New
Tyson Foods, Inc	\$2,500,000	110	Expansion
2006			
Graham Packing Company, L.P.	\$2,400,000	50	Expansion
Kawneer Company, Inc.	N/A	15	Expansion
SI International, Inc	N/A	150	Expansion
Tenneco Inc, Walker Mfg.	\$3,400,000	0	Expansion

Source: Harrisonburg Economic Development.

**Table 13-5: Harrisonburg Downtown Technology Zone Companies** 

Companies					
Rosetta Stone					
Gravity Group					
Immerge Technologies					
Digico					
eValley.com					
Digital Phenom					
Eren Corporation					
High Speed Link					
The Resource Network					
Blue Key Web Design					
Vision Technology Group					
MLC Advertising					
Venture Interactive					
Estland Design					

<u>Real Estate and Utilities</u>: Since the last Comprehensive Plan update, the City's shopping centers have experienced expansions, closures, and revolving vacancies. As these areas remain in flux, the City will continue to observe and promote the usage of vacant shopping center space and other available commercial areas. At the current time, the City is monitoring the opportunities for the Rockingham Square and Waterman Square shopping centers along with the available space that was occupied by Books-A-Million.

The limited availability of M-1, General Industrial District land, particularly of parcels larger than 30 acres, may be an obstacle to business recruitment efforts. Some existing business owners believe the natural gas infrastructure needs major upgrades. Columbia Gas of Virginia, a subsidiary of NiSource,

serves the area. Harrisonburg is on the end of their service line and curtailments are a frequent occurrence when temperatures drop below freezing.

Additionally, the City hopes to increase business opportunities, partnerships, and other cooperation for expanded broadband and wireless services.

#### **Tourism**

Overview: Harrisonburg Tourism and Visitor Services (HTVS) is the Destination Marketing Organization (DMO) for the City. The HTVS receives funding from the City's General Fund. It does not receive a direct allocation from the City's meals and lodging tax.

The mission of HTVS is to position Harrisonburg as a premier travel destination by promoting and developing creative tourism initiatives to stimulate economic growth in the City. HTVS works in partnership with local businesses, media, travel writers, group tour operators, meeting and event planners, film scouts, and regional and state tourism partners to increase tourism in our region. HTVS provides the most up to date information to our visitors upon arrival, and works to improve the quality of living for our local community. HTVS operates the Hardesty-Higgins Visitor Center, including the Valley Turnpike Museum, Rocktown Gift Shoppe, and the Civil War Orientation Center, located within the beautifully restored structure on Main Street. Specific goals include:

- - To build a distinct presence in the tourism marketplace by establishing a recognizable and easily marketable "brand" for Harrisonburg.
  - To continually develop new tourism products to promote the City.
  - To increase awareness of tourism marketing opportunities to our local businesses.
  - To enhance the visitors experience through continued research and promotion of our rich history and heritage.
  - To market to the motor coach industry by developing sports, heritage, culinary, and educational group travel opportunities.

Visitor Center: HTVS operates the Hardesty-Higgins House Visitor Center (HHHVC), a state certified regional visitor center. HHHVC provides space for rack cards, brochures, and various other print publications. Businesses can display posters and event and special promotion flyers. Businesses within the City are encouraged to display retail merchandise, antiques, art, and provide live demonstrations to promote retail business in the City. HHHVC operates Monday-Sunday 9am-5pm; closed only for major Holidays. Visitors are greeted by experienced Travel Staff. Travel Counselors are educated monthly on new opportunities in our region and attend an annual Virginia Tourism Conference for state updates and customer service training.

Welcome Packages: HTVS provides welcome packages to groups, event planners, and residents planning weddings, family reunions, and special events. Packages are assembled depending on the visitor's interests. Packages include Sports and Recreation, Arts and Entertainment, History and Heritage, Family Fun, Shopping/Dining/Lodging, or all of the above.

Marketing and Branding: HTVS is working to cooperatively market our attractions, buying down advertising with partners both locally and regionally in the Shenandoah Valley. HTVS follows national tourism trends, creating attractive packages and tourism products for the City. HTVS is working to increase awareness of the City by branding in close association with Harrisonburg Economic

Development and Harrisonburg Downtown Renaissance slogans and campaigns. HTVS is seeking a strong campaign for cable and satellite broadcasting, targeting the Northern Virginia and DC markets.

<u>Travel Media and Film Scouts</u>: HTVS is working with travel writers, and regional and national publications offering narrative to promote Harrisonburg as a premier travel destination. HTVS is working to promote the City in Virginia Living Magazine, SEEN Magazine, Preservation, Southern Living, Frommer's and Foder's Travel Guides, Newsweek, and multiple other print publications. Targeted broadcast stations include Fox News, PBS, and WVPT. Travel Writer requests for stories are submitted monthly. Exposure has continued to increase for the City since the inception of HTVS in July of 2005.

<u>Group Tour Opportunities</u>: HTVS has produced a 4 minute media piece to highlight heritage travel in the region and historic tours in Harrisonburg. HTVS currently offers five distinct tours. HTVS is working to increase awareness within the motor coach industry through annual profile updates, our new media piece, and membership in the American Bus Association. Regional partnerships have been formed to attract tours to our region by providing skilled step-on guide service for motor coach tours.

Meetings and Conferences: Harrisonburg currently has capacity for hosting events for up to 250 attendees. The City is also host to multiple small meetings and statewide conferences. Larger facilities are located on the campuses of James Madison University (JMU) and Eastern Mennonite University (EMU). HTVS works cooperatively with these establishments to fill leads interested in bringing meeting and conference business to the City. HTVS will continue to pursue the concept of a downtown or city conference facility, working cooperatively with the City and partner agencies.

<u>Annual Visitor Guide</u>: HTVS produces an annual visitor guide, which is distributed nationwide. In 2009, HTVS printed 75,000 copies to meet a growing demand.

## **Economic Development**

The stated mission of the City's Department of Economic Development is "to increase the number of higher-paying job opportunities available in Harrisonburg by attracting new businesses to this community and assisting existing firms to expand locally."

To that end, the department has set the following goals and underlying strategic objectives.

Goal: Increase technology-related job opportunities in the City

Objective: Attract expansion investments from Washington, DC metro area information

technology and/or telecommunication firms

Goal: Attract jobs that pay above-average wages

Objective: Assist in the attraction and creation of jobs in Harrisonburg that pay greater than \$16.33

per hour (the City's average weekly wage in 2010)

Goal: Attract capital-intensive operations to the City

Objective: Increase the machinery and tools tax base located within City limits

Goal: Improve the overall business climate within the City

Objective: Strive to make Harrisonburg the best place in Virginia in which to operate a business

Goal: Pursue regional cooperation in economic development efforts

Objective:

Work in cooperation with other Shenandoah Valley jurisdictions to market the Valley as a strong business region. By pooling marketing resources, the goal is to increase the number of business prospects in the pipeline.

Financing options are available to existing and prospective Harrisonburg firms through:

- Harrisonburg Industrial Development Authority (IDA) a 7-member board authorized to issue bonds for up to 100 percent of project costs for manufacturing operations.
- Harrisonburg Redevelopment and Housing Authority (HRHA) a 5-member board authorized to finance projects in the central business district of downtown Harrisonburg.
- Virginia Economic Development Loan Fund (EDLF) provides fixed-asset financing to new and expanding manufacturing and other companies that a) create new jobs or save at-risk jobs and b) sell 50 percent or more of their products outside of Virginia. Funds can be used for acquisition of land and buildings, construction or improvements to facilities, and the purchase of machinery and equipment.

<u>Harrisonburg Technology Park</u>: The City developed the Harrisonburg Technology Park to attract and encourage the development of technology-related businesses. The park is one of only 13 Virginia Technology Zones, a designation that allows the City to provide incentives to targeted businesses for up to 10 years. The Harrisonburg incentive package includes a three-year exemption from business, professional, and occupational license taxes and fees, exemption from water and sewer availability and connection fees, and below-market land prices.

Shenandoah Valley Partnership: The Shenandoah Valley Partnership (SVP) is a regional partnership that addresses economic development in the central Shenandoah Valley region. The Partnership includes the Cities of Buena Vista, Harrisonburg, Lexington, and Waynesboro, and the Counties of Augusta, Highland, Page, Rockbridge, Rockingham, and Shenandoah. JMU plays a particularly active role in the Partnership and provides on-campus office space.

The Partnership's Board of Directors is made up of approximately 20 members, split evenly among public and private sector interests. The Executive Committee of the Board provides leadership in regional activities and offers direction to the Shenandoah Valley Partnership's staff.

Shenandoah Valley Technology Council: The Shenandoah Valley Technology Council (SVTC) was established in 1997 through a grant written by the office of Research and Program Innovation at JMU. The SVTC provides informational programs and networking opportunities to its members, which include business, government, and education leaders. Standing committees include Planning and Operations, Regional Technology Workforce Development, Marketing, and Entrepreneurship.

<u>Downtown Renaissance Initiative</u>: The Harrisonburg Downtown Renaissance was organized by City Council in April 2002. This economic development effort is described in Chapter 14, Revitalization.

# **Economic Development & Tourism Goal, Objectives and Strategies**

Goal 14. To retain and enhance the City's role as the economic and tourism hub of the region, offering a variety of jobs in those sectors that enhance the City's ability to expand its economic base.

- Objective 14.1 To increase the number of higher-paying jobs available in Harrisonburg by attracting new businesses and assisting existing firms to expand locally.
  - Strategy 14.1.1 To monitor wage levels locally, regionally and in the state so as to determine wage goals.
  - Strategy 14.1.2 To continue to recruit new businesses and promote the expansion of existing business that offer full-time permanent jobs paying above the City's current average weekly wage or above a higher wage goal as wage studies suggest.
  - Strategy 14.1.3 To continue to assist businesses in taking advantage of financing options available from the Harrisonburg Industrial Development Authority, the Harrisonburg Redevelopment and Housing Authority, the Virginia Economic Development Loan Fund, and the Virginia Small Business Financing Authority Loan Guaranty Program.
  - Strategy 14.1.4 To continue the technology business incentive package offered in the Harrisonburg Technology Park.
  - Strategy 14.1.5 To make businesses aware through focused outreach of the business planning assistance available from the JMU Small Business Development Center and the Harrisonburg chapter of Service Corps of Retired Executives (SCORE).
  - Strategy 14.1.6 To increase living wage job opportunities for all segments of the workforce.
  - Strategy 14.1.7 To actively market older shopping centers with high vacancies including consideration of conversion to other uses.
- Objective 14.2 To increase business linkages with James Madison University, Eastern Mennonite University, Blue Ridge Community College, and National College.
  - Strategy 14.2.1 To continue and expand cooperative efforts between the City and the universities to promote new businesses that capitalize on university resources and the graduate employment pool. For example, the City and universities could hold annual summits to explore ways to expand business and job opportunities. Such summits should involve university business program faculty and staff, current students, and graduates.
  - Strategy 14.2.2 To involve JMU in efforts to revitalize downtown. An example of such involvement might include the expansion of cultural offerings through the planned Cultural Arts campus.
- Objective 14.3 To work with the Shenandoah Valley Partnership and the Shenandoah Valley Technology Council on regional economic development initiatives.
  - Strategy 14.3.1 To increase participation and investment in the Shenandoah Valley Partnership from both the public and private sectors including new businesses and industries.
  - Strategy 14.3.2 To participate actively in the Shenandoah Valley Technology Council so as to keep abreast of technology trends and support the infrastructure necessary to attract high-tech businesses.
- Objective 14.4 To build a distinct presence in the tourism marketplace to increase tourism in Harrisonburg.

- Strategy 14.4.1 To establish a recognizable and easily marketable "brand" for Harrisonburg and to market that brand through print, media, and electronic marketing, in travel magazine advertising, brochures, rack cards, small meeting, conference, and group tour promotional materials.
- Strategy 14.4.2 To provide interpretation of the Arts, Culture, and History of Harrisonburg through orientation at the Hardesty-Higgins Visitors Center.
- Strategy 14.4.3 To partner with local attractions, retail businesses, restaurants, museums, entertainment venues and lodging partners to develop products to increase motor coach tourism.
- Strategy 14.4.4 To encourage the development of expanded conference and meeting facilities in the City.
- Strategy 14.4.5 To support the Harrisonburg Tourism and Visitor Services in implementing these strategies.

# **Chapter 14** Revitalization

## Introduction

Cities, and areas within cities, often go through periods of community and economic health as well as periods of stress. Virtually all cities have areas within them that at some time are in need of rehabilitation and revitalization. The City of Harrisonburg has identified a number of areas of the City where revitalization strategies should be applied. The goal is to help these areas return to their original prosperity, attractiveness, and function so that they again become assets to the community and meet the needs of businesses and/or residents.

# Background

## Downtown

Downtown Harrisonburg was once the economic center of the City and the region, but has been overshadowed by new commercial and business areas. The City has made steps toward revitalizing its downtown, recognizing that a vital city center attracts business, tourists, and improves the overall quality of life for residents. To that end, Harrisonburg offers tax incentives to downtown property owners, has created special districts and zones, and has provided support for Harrisonburg Downtown Renaissance, a non-profit organization seeking revitalization of downtown.

<u>Central Business District</u>: The City has established tax incentives to encourage the renovation and/or rehabilitation of older structures downtown. The incentive is offered to owners of B-1, Central Business District commercial and residential real estate that is at least 25 years old. It provides partial exemption of real estate taxes, not to exceed the amount of the increase in assessed value due to the renovation, for up to five years.

Arts and Cultural District: The ordinance establishing the Arts and Cultural District was adopted in 2001. The district is comprised of the B-1, Central Business District, parts of B-2, General Business District adjacent to B-1, and James Madison University's (JMU) main campus. The City's stated goal in creating the district is "to improve the economic conditions of the central portion of the City, which could, in turn, benefit the welfare of the citizens of Harrisonburg." The district offers qualified arts organizations exemption from business, professional, and occupational license taxes and fees for three years. In addition, organizations are exempt from admission taxes and can qualify for the Central Business District tax incentive described above.

<u>Harrisonburg Downtown Technology Zone</u>: The zone was created to encourage technology businesses to locate in this limited area of downtown. Incentives include water and sewer connection fee exemption and 3 year business, professional, and occupational license tax exemption for qualified high-technology businesses.

<u>Economic Revitalization Zone</u>: This zone is defined as all parcels of real estate located within the City's B-1, Central Business District and the City's Virginia Main Street district. Tax incentives include partial exemption for 5-10 years from real estate taxation for new commercial and residential mixed-use construction exceeding \$1 million and containing at least 40 percent retail on the ground floor.

<u>Harrisonburg Downtown Renaissance</u>: This organization grew out of an effort initiated by City Council in April 2002 to evaluate a proposal to create a pedestrian mall in downtown Harrisonburg. Its mission has since broadened in scope, and is to "work in partnership with City government and the

community to develop a comprehensive vision and master plan to revitalize downtown Harrisonburg into a prosperous and vibrant city center." Its board of directors and advisory board include representatives of City government, non-profits, and the universities, as well as individual property and business owners and professionals.

Harrisonburg Downtown Renaissance's board of directors has laid out the following organizational objectives:

- Economic: To strengthen the downtown district's existing economic base, seek ways to introduce new types of commerce suitable for a downtown venue, and convert underutilized space into productive uses.
- Design: To promote the enhanced physical appearance of the district by capitalizing on its assets, rehabilitating historic buildings, encouraging supportive new construction and beautifying the streetscape.
- Promotion: To market the downtown district's unique qualities to potential customers, investors, new businesses, local citizens, and visitors through effective strategies and special events.
- Organization: To build cooperation and consensus between all stakeholders in an effort to meet our mission and objectives, to strengthen our Main Street program, and to improve the quality of life for the people who live, work, and visit downtown Harrisonburg.

Harrisonburg applied for and became a designated community with the Virginia Main Street program in August 2004 and will use the resources of that program to further the goals of downtown revitalization and the goals, objectives, and strategies of the comprehensive vision and master plan called for in Harrisonburg Downtown Renaissance's mission statement and organizational objectives. Included in the latter is the development of a document from August 2008 by Eugene Stoltzfus Architects titled: Urban Values & Vision for Downtown Harrisonburg, which is incorporated into the Comprehensive Plan by reference. This plan addresses a wide range of issues, among them the following:

- Local, regional, national and global perspectives
- Urban design principles and urban trees
- Opportunities for private building renovation and new construction
- Creative public projects and enhancements
- Guiding concepts and values

#### **Edom Road Revitalization Area**

The City has identified several blocks around Edom Road, as shown on the Plan Framework Map, as an area in need of revitalization. Located next to downtown, this area currently exhibits low quality and deteriorating building stock and conflicting land uses. The goal is to encourage reinvestment and to seek coordinated redevelopment of the area transforming it into an attractive and vital City asset. The revitalization plan for this area should consider such issues as the following:

- Ouality of building stock
- Number of vacancies
- Presence of historic and environmental resources
- Economic viability of businesses
- Parcels where redevelopment is recommended
- Appropriate land uses and zoning
- Redevelopment and building rehabilitation incentives

• Needed public investments (roads, sidewalks, streetscape, infrastructure)

## **Neighborhood Conservation Areas**

The Comprehensive Plan Advisory Committee has identified a number of neighborhoods around the edges of downtown as experiencing stress. These neighborhoods are highlighted on the Plan Framework Map. Some are suffering from poorly maintained, deteriorating, or vacant homes and spot conversions of single family homes to apartments, often for students. Other areas contain older deteriorating apartment buildings. Some are affected by encroaching commercial development or inappropriate conversion of houses to non-residential uses. Impacts of traffic on highly traveled roadways may also be creating neighborhood stress. This plan recommends that for each of these areas a community-based neighborhood plan be developed to address these and other issues raised by the community. Such plans might include:

- Programs to encourage the rehabilitation and renovation of older houses;
- Programs to facilitate home ownership and improve the quality of rental housing;
- Revisions to the Zoning Ordinance to reduce the number of variances and conditional use permits needed to build and renovate older homes on small lots;
- Strategies to reduce land use conflicts, including conflicts between residential areas and adjacent commercial or industrial areas and conflicts created by the expansion of public and institutional uses within neighborhoods;
- Programs to reduce pressures to convert single family houses and lots to other uses;
- Traffic impact analyses addressing commuter traffic on major through roads and industrial truck traffic;
- Recommended infrastructure improvements, including street and sidewalk repairs, traffic calming measures, new sidewalks and trails, upgraded water and sewer lines;
- Other public investments, such as street tree planting, pocket parks, and community centers:
- Resolution of safety and security issues;
- Programs to encourage the involvement of neighborhood residents in the improvement and maintenance of their neighborhoods (building leadership capacity, encouraging civic involvement); and
- Standards for public landscaping, streets, and utilities in the historic districts to enhance their distinctive design.

## Revitalization Goal, Objectives and Strategies

- Goal 15. To enhance and revitalize existing residential and commercial areas.
  - Objective 15.1 To make downtown revitalization a major, high priority public/private initiative, the cornerstone of the City's economic development, tourism, historic preservation, and civic pride enhancement efforts.
    - Strategy 15.1.1 To support the initiatives of Harrisonburg Downtown Renaissance in such areas as:
      - Creating a permanent, well funded downtown revitalization organization
      - Developing design guidelines and design enhancement projects
      - Marketing and promoting downtown businesses, restaurants and retailers

- Promoting the Arts and Cultural District and encouraging the location of museums and other cultural facilities downtown
- Strengthening downtown's economic base as a regional destination
- Making downtown the focal point for community and regional events.
- Encouraging flexibility and creativity in the use of public property and resources in the downtown (i.e. restaurant/cafe use of public sidewalk, and other proposals for public properties)
- Strategy 15.1.2 To develop with Harrisonburg Downtown Renaissance a downtown revitalization plan to guide the rehabilitation and development of the area. This plan should address the following:
  - Recommended changes in land use
  - The appropriate density and intensity of downtown development and redevelopment
  - Incentives to rehabilitate existing quality buildings
  - Design guidelines addressing such issues as building height, setback, orientation, façade treatment, commercial signage, etc.
  - Parking needs and standards for the location and design of parking lots and structures
  - Needed transportation improvements, including roads, sidewalks, bicycle lanes and trails, transit stops, etc.
  - Streetscape improvements, including signage, lighting, street trees, landscaping, paving materials, and street furniture.
  - Parks and public spaces, including bathrooms and a permanent stage for the park adjoining the Turner Pavilion.
- Strategy 15.1.3 To promote and create incentives for development of new housing downtown in accordance with the downtown revitalization plan.
- Strategy 15.1.4 To conduct a downtown parking survey and/or study directed toward identifying current and future needs and strategies which address those needed in light of the critical role that parking resources play in promoting and accommodating existing and additional retail and housing growth.
- Strategy 15.1.5 To prepare a redevelopment and revitalization plan for the Edom Road Revitalization Area, which is located adjacent to downtown.
- Objective 15.2 To examine the extent to which changes in the retail sector are related to retail growth versus retail relocation, to seek to minimize long-term retail vacancies, and to initiate programs to redevelop and revitalize abandoned older retail areas.
  - Strategy 15.2.1 To understand and monitor trends and conditions in the local and regional retail market.
  - Strategy 15.2.2 To consider the impacts of new retail commercial rezonings on the current retail supply and demand.
  - Strategy 15.2.3 To actively market older shopping centers with high vacancies including consideration of conversion to other uses.
- Objective 15.3 To identify neighborhoods under stress and seek to stabilize, improve the maintenance of, and revitalize these neighborhoods.

- Strategy 15.3.1 To prepare community-based neighborhood plans for neighborhood conservation areas identified on the Plan Framework Map. Such plans might include:
  - Programs to encourage quality rehabilitation and renovation of older houses;
  - Programs to facilitate home ownership and improve the quality of rental housing;
  - Revisions to the Zoning Ordinance to reduce the number of variances and special use permits needed to build and renovate older homes on small lots;
  - Strategies to reduce land use conflicts, including conflicts between residential areas and adjacent commercial or industrial areas and conflicts created by the expansion of public and institutional uses within neighborhoods;
  - Tools to assure compliance with zoning and property maintenance codes, particularly for residential rental units;
  - Programs to reduce pressures to convert single family houses and lots to inappropriate other uses;
  - Traffic impact analyses addressing commuter traffic on major through roads and industrial truck traffic:
  - Recommended infrastructure improvements, including street and sidewalk repairs, traffic calming measures, new sidewalks and trails, upgraded water and sewer lines;
  - Other public investments, such as street tree planting, pocket parks, and community centers;
  - Resolution of safety and security issues;
  - Programs to encourage the involvement of neighborhood residents in the improvement and maintenance of their neighborhoods (building leadership capacity, encouraging civic involvement); and
  - Standards for public landscape, streets, and utilities in the historic districts to enhance their distinctive design.
- Strategy 15.3.2 To utilize the planning process described under Objective 3.1
- Strategy 15.3.3 To implement neighborhood conservation area plans.

# **Chapter 15 Community Engagement & Collaboration**

## Introduction

The Comprehensive Plan sets out an agenda for City improvement and progress toward realizing its vision for the future. Many citizens tend to think that the City government alone is responsible for implementing the Comprehensive Plan. However, implementation success will depend greatly on the City government partnering with other governments, institutions, non-profits, civic groups, businesses and residents. Many issues can only be resolved comprehensively and successfully on a regional basis, so collaboration with Rockingham County is essential. Key internal institutions with which the City hopes to collaborate are James Madison University, Eastern Mennonite University and Rockingham Memorial Hospital. As the following Goal 16 shows, there are many areas where these institutions can collaborate with the City besides just the areas of education and health.

The vision statement presents a future City that is a great place to live, to raise a family, to work and to prosper. But note that the vision statement also contains another key idea – a City where citizens are inspired to work together. Goal 17 supports efforts to engender civic pride and to encourage all citizens to participate in planning for the City and working toward the vision. Generally, this goal is working toward establishing community engagement where the entire community is involved in local efforts and activities.

# Community Engagement & Collaboration Goals, Objectives and Strategies

- Goal 16. To coordinate and collaborate with Rockingham County, Rockingham Memorial Hospital, James Madison University, Eastern Mennonite University, faith based organizations, and others to meet these goals.
  - Objective 16.1 To explore ways that the City of Harrisonburg and Rockingham County might increase collaboration in the provision of public facilities and services and in other public endeavors.
    - Strategy 16.1.1 To establish a formal process under which the City and County can discuss and implement coordinated or shared programs in such areas as affordable housing, land use planning, growth and development, transportation, emergency communications system, parks & recreation, greenways, tourism promotion, stormwater management, environmental protection.
  - Objective 16.2 To coordinate and collaborate with James Madison University, Eastern Mennonite University, and Blue Ridge Community College in areas of mutual concern.
    - Strategy 16.2.1 As described in other objectives and strategies, to establish mechanisms and procedures for coordinating and collaborating with these institutions of higher learning on such issues as campus master planning, provision of student housing, transportation and parking,

- workforce development, technology business development, lifelong learning opportunities, and arts and culture.
- Objective 16.3 To coordinate and collaborate with Rockingham Memorial Hospital, the Central Shenandoah Health District and the Healthy CommUnity Council in responding to community health needs and concerns.
  - Strategy 16.3.1 To support and coordinate with the health community on such issues as wellness programs, health issue awareness, and doctor recruitment.
- Goal 17. To engage all citizens to work collaboratively in planning, developing, and promoting the City as a great place.
  - Objective 17.1 To encourage citizen involvement in City affairs through a multi-venue campaign to promote civic pride and participation.
    - Strategy 17.1.1 To continue developing and implementing civic pride events, such as, city clean-up days, spring flower planting, volunteer recruitment fair, walk or bike to work/school day.
  - Objective 17.2 To establish procedures for including citizens in planning and plan implementation.
    - Strategy 17.2.1 To develop and implement a planning approach and process that assures involvement of residents and landowners in preparing the plans for their neighborhoods.
    - Strategy 17.2.2 To include citizens and the business community in commercial area revitalization planning efforts.
    - Strategy 17.2.3 To establish a Comprehensive Plan Advisory Committee for each regular comprehensive plan review and update effort.
  - Objective 17.3 To reach out to all segments of the population to ensure their participation in planning, developing, and promoting the City as a great place.
    - Strategy 17.3.1 To establish volunteer liaisons between the City and the immigrant communities.
    - Strategy 17.3.2 To provide signs and brochures in Spanish as much as feasible.
    - Strategy 17.3.3 To hire multi-lingual staff to the extent feasible.
    - Strategy 17.3.4 To increase the diversity of the City staff.
    - Strategy 17.3.5 To provide diversity training for City employees so that they are better equipped to serve all segments of the community.
    - Strategy 17.3.6 To provide Spanish translators at comprehensive plan public input meetings and to advertise such meetings in the local Spanish language newspaper.
    - Strategy 17.3.7 To continue to celebrate the City's ethnic communities through events and festivals.

Strategy 17.3.8 To encourage immigrants to learn English.

# **Chapter 16** Implementation

#### Introduction

This plan recommends an ambitious array of goals, objectives, and strategies for achieving its vision for the future. The Planning Commission and City Council recognize these recommendations cannot be implemented all at once. There are limitations of time and money that must be weighed against the desire to accomplish so much. Therefore, this chapter of the plan sets priorities for the strategies that should be undertaken first – in the first five years after adoption of the plan.

This chapter also addresses future amendment of this plan. Circumstances change and opportunities arise; therefore, to keep this plan vital and useful, it must be reviewed regularly, and citizens must be involved in those reviews

Priority Implementation Strategies for the First Five Years: The 2011 – 2016 Action Plan The following implementation strategies have been identified as priorities that should be implemented starting in 2011 and completed by the end of 2016:

- Strategy 1.6.1 To remove the potential for development or redevelopment of uses incompatible with their surroundings by initiating appropriate rezonings or text amendments as indicated by the Land Use Guide.
- Strategy 3.2.2 To develop a set of policies to limit rezonings and special use permits for conversions of single family homes into duplexes and apartments. Such policies should contain criteria regarding the locations and neighborhood and building conditions that warrant permission of conversion as well as neighborhood plan recommendations regarding conversions to rental housing.
- Strategy 3.2.4 To consider implementing a rental housing registration and/or inspection program to ensure compliance with the Building Code and promote safe, decent and sanitary housing. Sufficient funding will need to be secured to establish this new program.
- Strategy 3.3.2 To include in the City's land use codes and manuals design provisions and performance standards to improve the design quality of all residential development.
- Strategy 3.4.2 To review and amend the Zoning Ordinance so as to increase opportunities for single family residential development affordable to households in a range of incomes.
- Strategy 8.4.5 To consider adding street tree planting and other landscape requirements for new development and redevelopment in the City's land use codes.

- Strategy 10.1.4 To expand the Design & Construction Standards Manual to include design standards for streets that reduce traffic congestion within the transportation system while accommodating all transportation modes. Standards should be included both for streets constructed by the City and those by the private sector specifying appropriate:
  - interconnectivity of the street system
  - street widths adequate to handle projected traffic volumes based on traffic impact analyses while avoiding excessive pavement widths
  - pull-off areas for buses on collector and arterial streets
  - bicycle facilities
  - sidewalk widths and location within the street right-of-way.
- Strategy 10.2.1 To plan for "complete streets" that are designed and operated to enable safe access for all users including bus, bicycle and pedestrian access into all new street and street improvement projects.
- Strategy 10.2.3 To consider alternative techniques to reduce traffic congestion such as expanded transit service, integrated and optimized traffic signal timings, re-marking lanes, and integrating bicycle/pedestrian enhancements.
- Strategy 10.6.1 To promote mixed use neighborhoods as recommended by the Land Use Guide so that residents of these neighborhoods can easily walk, ride a bicycle, or take transit to work, shopping, school, place of worship, and recreation.
- Strategy 14.1.2 To continue to recruit new businesses and promote the expansion of existing business that offer full-time permanent jobs paying above the City's current average weekly wage or above a higher wage goal as wage studies suggest.
- Strategy 15.1.1 To support the initiatives of Harrisonburg Downtown Renaissance.
- Strategy 15.3.1 To prepare community-based neighborhood plans for neighborhood conservation areas identified on the Plan Framework Map.

Revisions to the Priority List of Implementation Strategies in the 2011-2016 Action Plan City Council reserves the right to change the priority list as strategies are completed, as circumstances change, and as new opportunities arise. It is difficult to predict the future. As the City pursues a strategy, it may find that upon detailed study, the strategy recommended is not advisable. An alternative strategy to meet the objective and goal may be substituted. In addition, a strategy that seemed important may be reduced in importance because of a change in circumstance. Another strategy may be moved up on the priority list because a new funding source becomes available, an organization or group offers to carry it out, or a strong need arises.

The list of priority strategies provided above is flexible and may be changed during the 2011-2016 timeframe

It should also be noted that the inclusion of a strategy in this plan does not guarantee implementation. Council also reserves the right to evaluate the need and cost of implementing a strategy in light of current conditions and priorities as implementation proposals arise.

# Implementation of Strategies not in the 2011-2016 Action Plan

The City will implement immediately some objectives and strategies that are not listed in the 2011-2016 Action Plan. These involve on-going activities, mandated activities, or activities already planned in the Capital Improvements Program.

## **Amendments to the Comprehensive Plan**

This plan should be reviewed again in the 2016-2017 timeframe so that is does not become out of date. Virginia law also mandates such a review. The review may be a complete rewrite of the plan, as was done in 2003, or it may involve just a review and revisions of this plan document. A process to involve the public must be implemented in the 2016-2017 review.

Amendments to this plan may also be needed within the 2016-2017 timeframe. If the Planning Commission and City Council receive a request to approve actions that contradict the Land Use Guide and Master Transportation Plan, amendments to the plan should be considered first. Such amendments could be considered concurrently with a rezoning or other proposal. Public hearings should be held to allow citizens the opportunity to comment on the proposed amendments.

# Implementation Goal, Objectives and Strategies

- Goal 18. To keep this plan vital and useful by regularly reviewing its recommendations and the progress toward meeting them.
  - Objective 18.1 To review and update the comprehensive plan at least once every five years.
    - Strategy 18.1.1 To prepare and implement a schedule for regular plan updates.
  - Objective 18.2 To publicize the process whereby citizens and landowners may propose amendments to the comprehensive plan between five-year plan review efforts.
    - Strategy 18.2.1 To provide a description of the plan amendment proposal procedure on the city web site.
    - Strategy 18.2.2 To make available application and hand-out materials for plan amendment proposals.
    - Strategy 18.2.3 To establish a deadline after which plan amendment proposals will be subsumed in the regular five-year plan update process.

- Objective 18.5 To use the comprehensive plan as a guide in land use and zoning decisions, capital improvements, budgeting, and other city actions.
  - Strategy 18.5.1 To address the conformance of rezonings, special use permits, the CIP, and public facilities improvements with the comprehensive plan in staff reports.
  - Strategy 18.5.2 To implement a formal process for Planning Commission determination as to whether the general location and extent of each proposed public facility is in substantial accord with the adopted comprehensive plan. (Section 15.2-2232 of the Virginia Code)